

Manufacturers Record

Exponent of America



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APRIL 9, 1925

The South's Call to the Railroads.

The story in last week's issue of the Manufacturers Record as to how the people of Alabama had caught a new spirit of enthusiasm in regard to the Southern Exposition, and how one member of that committee had offered to pay the entire expense of shipping the state's mineral exhibit from the University of Alabama to New York, and how men—than whom there are no busier men in the entire South—were concentrating their efforts to see that Alabama is adequately represented, should inspire quick action on the part of every other business man in the South to match what they are doing.

In the same issue the story that was told of how the Georgia & Florida Railroad is preparing to make a comprehensive exhibit of the timbers and the minerals and the agricultural products of the section tributary to that line, and the products produced out of these things, was also an inspiring illustration of the spirit which animates some Southern railroads—but not all.

Shortly after the editorial on the movement of this road was written came a wire stating that the Seaboard Air Line had taken 800 square feet for exhibition purposes. The Seaboard is always alive to every situation. It sets an example for every other railroad in the South. Some of these roads have been piling up great profits and great surpluses. Out of the prosperity of the South they are enormously enriching their owners, but they are not contributing to the advancement of the South in keeping with their responsibility to this section.

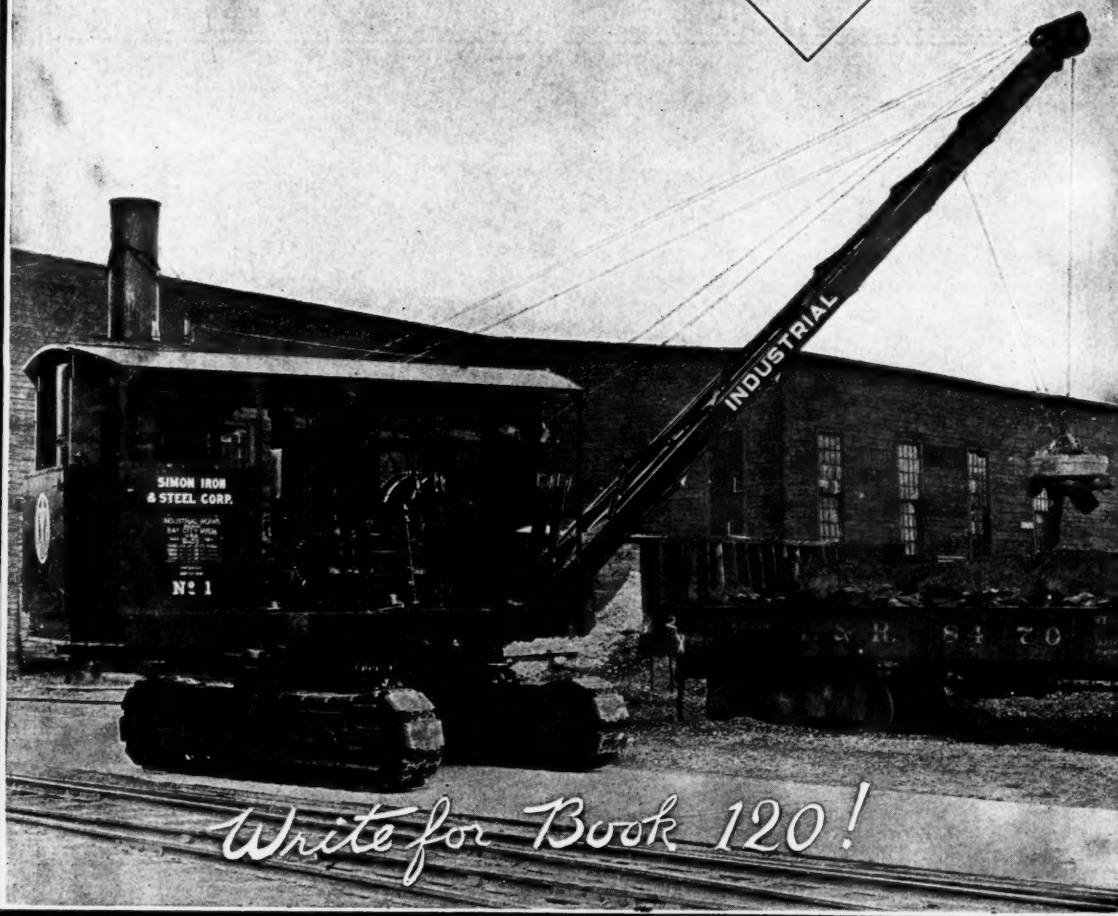
There is not a railroad in the South which should not be fully represented at the Southern Exposition and do its part in enhancing the prosperity of this section. Every railroad that fails to do this is recreant to its responsibility to the South. The business men of this section, the shippers and the travelers who use these lines will be fully justified if they insist, with an insistence that is almost equal to a command, that these railroads wake up to their responsibility and spend some of their heavily increasing earnings in enhancing the prosperity for the present and the future of the entire South.

These railroads are earning more money than the railroads of any other section of the United States, and it behooves them in justice to themselves and to the South to put some of these big profits and the big surpluses, which some of them are accumulating, into co-operative work with the Southern people to draw men and money and industrial interests into this section on a larger scale than ever before. Some of them make the plea that the time is too short. That excuse is hardly justifiable, for when men decide to do things and have the energy with which to push them, time does not count very heavily. It depends upon the spirit of energy and enthusiasm and virility, whether time is too short or not. Where these are lacking it is immaterial whether time is short or long—accomplishments are not made.

We speak thus plainly, with the kindest feelings to all the railroad officials of the South, but we speak it in earnest, because we know that in failing to do their part they are sowing the seed of distrust which will eventually grow into a harvest of ill will such as was brought on years ago by the blunders of the railroad management of that day, and if any railroad official wants to know details as to those blunders they can be supplied in abundance. We strongly urge them to act, and act with vigor, in adequate representation at the Southern Exposition.



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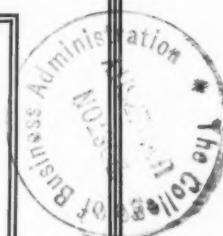
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APRIL 9, 1925

Manufacturers Record

EXPONENT OF AMERICA



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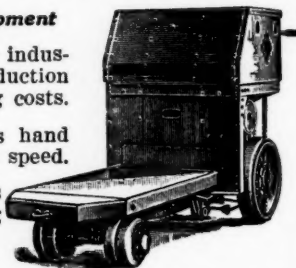
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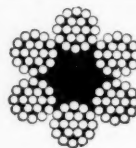
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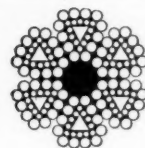
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Weekly

BALTIMORE, APRIL 9, 1925.

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How Governor Brandon of Alabama Called Upon the Business People of That State to See That It Was Adequately Represented at the Southern Exposition.

GOVERNOR WM. W. BRANDON of Alabama, after discussing in detail the plans of the Southern Exposition as presented by Mr. J. H. Nixon, vice-president of the International Exposition Company, which is handling the details, issued an announcement to the people of the state, in the course of which he said:

"Believing that Alabama should have an exhibit at this great Exposition in May, and being deeply interested in the development of our material resources and giving to the world an opportunity to judge of our possibilities, I am endeavoring to co-operate with the authorities in putting on this great Exposition.

"I feel sure that every patriotic Alabamian will welcome the opportunity to co-operate in every way possible to make Alabama's exhibit one that will reflect in part our resources. Unfortunately, the state as a state made no appropriation for this purpose, and if our exhibit is to be a success it must be through the efforts of patriotic Alabamians who are willing to give of their time and money in the accomplishment of this undertaking.

"To my mind, we have seldom had an opportunity of portraying our resources to better advantage than that at the Southern Exposition. I am, therefore, giving Mr. Nixon this letter to ask you to co-operate with him in every movement looking to the accomplishment of our purpose to show to the world that Alabama is active and alive to her possibilities.

"I have said to Mr. Nixon that in every way possible, as the Chief Executive of this state, I would co-operate with him and his organization, and have asked him to select such men as his organization thought proper for the presentation and carrying to its final conclusion this work, and that so far as the power vested in me was concerned I would co-operate with them.

"I appeal to the industrial leaders of our Commonwealth to give this matter serious consideration and put the machinery in operation that will bring the results commensurate with the state's resources."

In calling upon the patriotic people of Alabama to measure up to this opportunity, Governor Brandon struck at the very heart of the business people, who quickly met the situation. A committee was appointed, which was announced in the MANUFACTURERS RECORD last week, consisting of some of the very foremost upbuilders of the state. There are probably no busier men in the South than are these men, but they

recognized that a call from the Governor of Alabama was a call to duty and a call from the whole state which they could not refuse to answer without showing a very great lack of respect to the Governor and to the state over which he presides. That committee is composed of the following:

Theodore Swann, president of the Federal Phosphorus Company, chairman of the committee; George Gordon Crawford, president of the Tennessee Coal, Iron & Railroad Co., one of the biggest subsidiaries of the United States Steel Corporation; Col. R. A. Mitchell, vice-president of the Alabama Power Company; Robert Jemison, Jr., president of Jemison & Co., Inc., investment bankers; L. Sevier, president of Associated Industries of Alabama, and Donald Comer, cotton manufacturer. These are all busy men, crowded to the limit with work. They have heavy responsibilities resting upon them in many lines of activity, but they have not shirked the responsibility. They accepted the appointment. They have thrown their energy into the plan. Not only did Mr. Crawford increase the space which he had secured by 500 additional feet but he immediately agreed to bear the cost of shipping the entire state mineral exhibit, now housed at the University of Alabama, to New York, and thus give an exhibit of minerals worthy of this marvelously endowed state.

The spirit with which these men have thrown themselves into the work is a spirit which should stimulate every thinking man in the entire South. Every business man owes a certain responsibility to his state. He cannot shirk it, by saying that he is too busy, without stultifying to the injury of his state. There are some patriotic calls which the state and the nation can make upon their people—their railroads and business men and corporations—and when they are made it is the duty of every man to answer.

Every governor in the South could well follow the example of Governor Brandon and send forth a ringing challenge to the people of his state to meet this responsibility, and they would either meet it promptly or they would show that they had no respect for the dignity and responsibility of the gubernatorial office. They would thus throw contempt upon the very office to which they have elected the man who stands officially at the head of the state.

There are some governors in the South who say they are extremely anxious that their state should be represented, but who have not yet taken any aggressive, determined stand to see that they shall be represented. They have not gone

down into the conflict and rallied followers around them by strong announcements or personal pleas so that the men of the state shall rise to this opportunity and look beyond their own immediate individual business activities and take a distinct part in doing a thing which in helping their state will help themselves, and which in helping their state will help the entire South. Lamentable, indeed, would it be if any governor in a Southern state had tacitly to admit that he had so little influence with the people of his state that he could not rally them around him in a matter of such great importance to the state's welfare. It would almost seem that a governor who took that position would cast a serious reflection upon his own power and influence with his own people.

Some governors and some business people are pleading that the time is too short. That is incorrect. There is abundance of time—though none to spare—for men who really have it in their souls to achieve things and who are determined that they will not be downed by temporary setbacks or by handicaps which others try to throw around them.

The South needs this Exposition. It needs it in order to give to the people and press of the East the best possible presentation which it can make of its resources and its achievements. It needs it almost equally as much for the reflex influence which success would have upon its own people. They need to be quickened. They need to catch the spirit, the inspiration, of doing things. They need to broaden their horizon and recognize their responsibility to the welfare of the state which gives them protection and makes possible the success of their business. The South needs it to quicken the thought of its own people and make them think of this section rather than seeking a field somewhere else. The Exposition offers an opportunity to do all of these things, an opportunity to show to the world what the South is, an opportunity to stimulate and stir the ambition of its own people.

Are there enough leaders in the South to meet this opportunity, or will some of them shirk the burden and say, "Let somebody else do it; I am too busy."? The really busy man is the one who always achieves something. The man who is always saying he is too busy to attend to public duties is like the church member who says he is too tired or too indifferent to attend the service of his own church.

"Wake up!" should be the ringing call by every governor of the South to every man and woman in his state. Alabama was late in acting, but Alabama will prove that though the time is short the thing can be done. How many other states that are somewhat lagging behind will follow Alabama's example?

How many other railroads in the South will follow the wise example of the Southern Pacific, the Seaboard Air Line and the Georgia & Florida by recognizing the importance of this opportunity and recognizing their responsibility to the country which is furnishing them the traffic that is making possible their success? We do not hesitate to say that the railroad which fails on the plea that the time is too short, or that they cannot make exhibits of this kind, will fail to do its duty to the South. That may seem a harsh statement, but it is the truth, and it is just as well to speak plainly to the railroads, for their future is staked on the progress and prosperity of the South and on winning and holding the favorable sentiment of the public of the South.

Public sentiment is a thing with which railroads must reckon. They lost it years ago and that loss brought forth all of the adverse legislation which nearly destroyed them. They have not yet won it back sufficiently strong to afford to risk its loss. One of the great railroad presidents of the country has said to the MANUFACTURERS RECORD that most railroad officials

have no conception whatever of the power of public sentiment or of the psychological effect which the winning or the losing of public sentiment has upon their own future.

Railroad officials who have said that they will not exhibit do not feel like reversing their position, as that would look like they are not infallible; but it is better to correct a mistake than to permit it to stand. Our advice to these officials is to correct the mistake while they have time.

ATLANTA CALLS UPON SOUTHERN RAILROADS TO CO-OPERATE WITH SOUTHERN EXPOSITION.

Atlanta, April 4—[Special.]—The Junior Chamber of Commerce of this city, which represents the vigorous, aggressive young business men of Atlanta, at a meeting today unanimously adopted the following resolution:

"Whereas, the Junior Chamber of Commerce of Atlanta is thoroughly convinced that the Southern Exposition, to be held at Grand Central Palace, New York, May 11 to 23, inclusive, offers an unprecedented opportunity for advertising the agricultural, mineral, hydro-electric, climatic and racial potentialities and actualities of the Southern portion of the United States; and,

"Whereas, we, the Junior Chamber of Commerce of Atlanta, are exerting our every effort that Georgia's resources may be adequately represented thereat; and,

"Whereas, we believe the railroads traversing the South would be the immediate beneficiaries of the good of this Exposition on account of the increased population in the South, which would mean an increased production, an increased tonnage and increased passenger travel; therefore, be it

"Resolved, That we, by this resolution, do request and petition the railroads of the South to make a display of the soil and of the different woods, timbers, etc., along their rights-of-way, in order that the people and industries in their immediate sections benefit thereby, as well as take a personal interest in, and feel an appreciation of, the service rendered by the railroads;

"Resolved, That these resolutions be forwarded to different commercial bodies, chambers of commerce, railroads and press."

These resolutions, representing the spirit of Atlanta, will be sent to the commercial organizations of the South with a view to pressing upon the railroads which have not yet given co-operation to the Southern Exposition to do so at once and thus show their interest in the prosperity of the South.

A WISE MOVE BY SEABOARD AIR LINE.

THE Seaboard Air Line Railway, with its accustomed energy and broad spirit, has increased its contract for space in the Southern Exposition from 800 square feet to 1200 square feet. To every railroad in the South it might be said, "Go thou and do likewise."

The Spirit Which Must Animate the South.

MOST people have had the impression that Florida is widely advertised throughout the country, but the Florida people are of the opinion that what they have done is wholly beneath what they should do, and they have gone at a task of still wider development on a scale which should be studied by the entire South. If some of the states adjacent to Florida do not want to see a still greater draining of their own population into Florida, they must follow Florida's example of energy, virility and enthusiasm and of advertising which will match what Florida is doing.

Heretofore Florida has been widely advertised, but largely by individual cities. They have spent money lavishly, and the result is seen in the tremendous growth of these cities and in the rush of men and money into Florida which, even if regarded soberly, is staggering, for as far as one can judge it surpasses anything ever seen in this country. The rush to California, both of men and money, creating the vast wealth of that state, is at the present time probably being largely surpassed by the movement of men of great power and wealth into Florida, with the vast upbuilding enterprises which they are handling; but Florida is not satisfied.

A few days ago a meeting was held at West Palm Beach called the All-Florida Development Congress. It had been called by many of the foremost men of the state, and the attendance of great leaders in finance and city upbuilding activities proved that they were in deadly earnest. Unlike many meetings called in other states, where the attendance has been slim and the spirit of liberality and enthusiasm lacking, this meeting brought together about 150 men—millionaires, multimillionaires, city upbuilders, railroad people and others, all desperately in earnest in behalf of a broader campaign for Florida's upbuilding.

After a full discussion of the whole subject from every angle, a resolution was offered that the state legislature be requested to appropriate \$200,000 a year for at least two years, to be used strictly in advertising in newspapers and magazines. There was one voice raised in opposition, and only one, and that was the voice of a banker who proposed that the amount should be \$400,000, expressing the thought that the amount named was too small to do the work which should be done in behalf of Florida. It was agreed, however, that only \$200,000 a year would be asked for at the present time, but when this had been unanimously adopted a statement was then made that this money, which it was hoped would be appropriated by the state, must be spent exclusively for advertising space and not a single dollar be used for office or overhead expenses of any kind. It was stated that it would take \$100,000 to adequately handle the office in which this work would be centered and to carry on the general campaign, and that this must be raised by voluntary subscription. Within 15 minutes over \$63,000 had been pledged to this fund in amounts ranging from \$2500, in a number of cases, down through \$1000, of which there were 25 or 30 subscriptions, and then on down to \$250.

Newspapers, banks and business men generally vied one with the other in their enthusiasm to get their names recorded for the subscriptions made. It was a great meeting—a meeting that set the pace for Florida's future. It announced to the world that, not content with what it has been doing, Florida has determined to go forward on a movement wider and more far-reaching than anything that has yet been seen in that state. It was an inspiring meeting. It should be studied by every state in the South, for only when they catch such inspiration as was shown at this meeting, and only when they are ready to voice it by giving their time and work and money with the liberality which was displayed at this

meeting, will it be possible for these states to match the growth of Florida.

Every state in the South has resources which in one way or another are capable of developing a wealth which would match that of Florida, but until they have caught the Florida spirit, until they are ready to spend their money with equal freedom, until they are ready to spend not only their individual money but to pay taxes in order that the state may carry on such an advertising campaign, they will be lagging behind the pace which Florida is setting for them. It was not necessary to carry on any special campaign to get the business people together. A call was issued by a few leaders, with a distinct statement of what it was intended for. Almost instantly it was taken up by 150 or more business men, who agreed promptly to take part in it and back up its work. And no one not in attendance at the meeting could quite understand the enthusiasm which prevailed, the unanimity with which the action was taken or the class of men represented. They were the great leaders, great in business, great lawyers, great city builders, with the Governor of the state at their head, making a speech which fairly teemed with the spirit of upbuilding, calling upon these men to lead Florida to higher heights of prosperity.

Governor Martin gave full credit in his speech to the recent editorials in the *MANUFACTURERS RECORD* urging the industrial development of the state and an industrial survey, in order that Florida might know exactly what it has and on what to base its material advancement for the future. The state is no longer content to concentrate its business activities upon great land operations and town building. It recognizes that there must be a broad foundation for permanent prosperity, and this Florida has determined to have.

The wide advertising to which reference has already been made has heretofore largely been due to heavy advertising by cities which raised their advertising fund by public taxation. This has proved so successful that it has inspired the business people of Florida to have the state do still broader advertising by public taxation. The theory of this payment by taxation is that, as advertising benefits every bit of property and every business interest in the community which spends its money in this way, all property should bear its proportionate cost for this publicity. That is the ground on which the appeal is to be made to the legislature for a \$200,000 advertising fund.

The value of this was strikingly shown in an address of F. G. Sewell, president of the Miami Chamber of Commerce and chairman of the committee on state publicity. In the course of his address, using Miami as an example, he said:

"Our experience in advertising in Miami should prove the value of proper advertising to the most skeptical. Up to 1914 we tried to do things in Miami by talking, and we were making a miserable failure. We did less business in 1914 than in 1913. We were slipping back. We decided to put money back of our ideas and reasons, and the result is that Miami is practically leading all Florida in progress and prosperity. In 1914 our assessed property was approximately \$6,500,000. We now have \$87,000,000 value within the present city limits and one-half of our city is outside of the limits. Up to 1914 our building record had never exceeded \$650,000, but we began in 1915 to advertise, and from that day on we had a building record of over \$4,500,000 annually for five years, jumping last year to over \$17,000,000, and it is estimated that we had within 10 miles of the center of the city of Miami a building record of easily \$40,000,000 in new operations.

"In 1914 the postoffice receipts were \$67,000, and in 1924 were \$493,000, and will reach in 1925 probably \$750,000. The population of 1914 was 7000; now it is estimated at over 100,000. In 1914, before we began to advertise, our bank

deposits were \$3,300,000; after nine years of advertising these deposits are now over \$74,000,000."

These and many other facts and figures were given to show the tremendous value of advertising. Other cities in Florida which have been heavily advertising have had somewhat commensurate results, while cities which have not advertised have lagged behind. In these facts is found a world of meaning which every city and every state in the South should take to heart. If the citizens are not willing to advertise by public taxation and thus put the burden equally upon every business interest and every bit of property in the city, or state, they need not expect to match what these heavily advertised Florida cities are doing. If the states of the South are not willing to do this kind of advertising through advertising supported by taxation, they, too, will lag behind in proportion to the states which adopt this method.

It need not, however, for a moment be supposed that such results as Florida has achieved by advertising can be accomplished by other cities or other states unless they imitate the work of Florida cities. They must clean up. Where rotten politics control the situation, they must be changed for good management. Miami, for instance, has five bank presidents as a commission which controls the entire management of the city. Cities that want to imitate this kind of growth will waste their money in advertising if they do not have the same kind of spirit of enthusiasm for upbuilding, the same united action on the part of the people in co-operative work, in beautifying streets and roads, and in making every town and every city attractive to the visitor. And they must not expect instantaneous results. A long pull and a hard pull and a steady pull, year after year, will be the only way in which achievements worth while to the South can be accomplished, but these things can be done if the spirit which animates the people of Florida, as shown in this convention, is caught by the people of other Southern states.

The newspapers must be leaders. They must give less attention to scandals and sensations and more attention to everything which makes for upbuilding work. They must concentrate upon constructive activities, and eventually their readers will catch their spirit and go forward. Will the South meet the opportunity?

MUST PROTECT THE PEOPLE.

IN the interval before the assembling of the Sixty-ninth Congress, the members, old and new and in both chambers, may do well to ponder a simple, fundamental fact: No "bloc" in the country numbers a numerical or political majority of the American citizenry—not organized labor, or organized agriculture, or organized finance, or organized manufacture. The plain, "white-collar" men and women are in tremendous majority and must be protected against the selfish movements of any organized minority, no matter how vocal or threatening. Realization of this fact will bring political freedom to the statesmen, and also may possibly stay their hand in the enactment of more discriminatory and "class" legislation than they already have put on the books.

SHOULD TELL SAVANNAH'S ADVANTAGES.

OBJECTION is voiced by the Civilian Club of Savannah to an advertising sign on the Augusta road placed by a local concern and reading:

"Savannah—It was here, in 1864, that Sherman wrote Lincoln, 'I present you this city, with 150 heavy guns, several thousand men and 25,000 bales of cotton, for a Christmas present.'"

The Civilian Club is right. No such sign to stir up animosities should be permitted anywhere.

HOLLYWOOD, FLA., INTERESTS WILL SPEND \$40,000 IN CONNECTION WITH SOUTHERN EXPOSITION.

[Telegram to Manufacturers Record.]

Daytona, Fla., April 7.

I am just in receipt of a telegram from J. W. Young, president of the Hollywood Land & Water Company and also of the Florida Society of America, of Hollywood, in which he says:

"We are taking space at the Southern Exposition in the name of the Florida Society of America, displaying there our Florida industrial prize contest and the society's official publication, the Hollywood Magazine.

"We will also advertise the prize contest in New York, Brooklyn and Philadelphia papers at the same time.

"We have wired Governor Martin, 'It will be a grave economic oversight for Florida not to be officially represented at the Southern Exposition. The Florida Society of America is taking space and will advertise in New York papers during the week of the Exposition. Will you not use your influence to persuade the legislature to act?'

"I sent similar wires to a dozen leading chambers of commerce and other state officials. We are greatly interested in Florida as a whole and deplore the state's reluctance thus far to take an active part in the important event of the Southern Exposition.

"The Florida Society will spend at least \$40,000 directly contributory to our exhibit in New York, but not one cent of this amount is to advertise Hollywood as a development."

Mr. Young recently offered a cash prize of \$10,000 and smaller prizes amounting to \$10,000, making a total of \$20,000, for the best suggestions in regard to the things which could be manufactured to greatest advantage in Florida. His proposition to spend \$40,000 in connection with the Southern Exposition exhibit is for the purpose of attracting attention to the industrial possibilities of this state.

It should stimulate every interest in Florida and in other Southern states to join in the good work.

R. H. E.

VOTE ONE WAY AND PRAY ANOTHER.

L. J. FOLSE, manager of the Mississippi Development Board, of Hattiesburg, Miss., in discussing the need of a tariff on sugar for the protection of the sugar interests of this country, writes:

"In this connection I am reminded of an old story frequently told back home, which runs something like this: The staunch, patriotic, loyal, dyed-in-the-wool Democrat, with an unbroken record, dating back to the very beginning of the party, always votes the party ticket straight, regardless of what the ticket carries or the policies advocated by the men on the ticket. In fact, the old-timer said, 'We Democrats go out and vote for everybody on the Democratic ticket, from dog-catcher on up—or down—and quietly go home and pray to the good Lord to let the Republicans win, as we could not live on the policies for which they stood.'

"While it is regrettable, of course, that the sugar industry is all but wiped out, yet Louisiana got just what she has been voting for for years. She has been fighting the party and the principles which would have guaranteed the future of her crop.

"We either want the domestic sugar industry or we don't want it. There is enough information available for the most humble citizen to determine what the tariff rate ought to be to give the industry the protection which would guarantee a fair return upon the investment. The history of all products manufactured in America which come into competition with foreign products produced under labor conditions, which we hope will never exist in America, is that they survived because of that protection."

A REAL RAILROAD JOKE.

SOME railroads which have refused to spend a dollar for the Southern Exposition are asking the Exposition people to give them thousands of big posters about the Exposition in order to draw passenger traffic from the South. These officials do not seem to understand that the Exposition is intended to draw Eastern people to the Exposition, not Southern people. If Southern people attend, it will be well and good, but that is not the object of the Exposition. Really, the action of such railroad officials is a huge joke.

Commenting on the failure of some Southern railroads to back up the Exposition by their works, the Greenville (S. C.) News says:

"The Southern Exposition is a new and untried experiment, designed to exploit the opportunities of the South to the nation's largest and most important city. There is appalling ignorance of the South in New York, and the Southern Exposition is conceived in the hope of substituting enlightenment for it. At a mechanical convention in New York last year a visitor expressed great surprise that there were ice companies in the South; he did not know the Southern people had money enough to buy ice. The Southern Exposition hopes to drive away such foolish ideas and to impress the metropolis with the progressiveness and up-to-dateness of the section which only a few decades ago was virtually in ruins.

"Why the great railroads of the South should fail to assist in making a success of this movement is not understandable. Their help is badly needed. They would profit immensely by a successful exposition and be injured along with the rest of the South if a failure resulted. They should have enough concern for their own welfare to be represented.

"The Greenwood Index-Journal several times has stressed the backwardness of the railways of the South in promoting through publicity and other means the development of the South. Southern newspapers are printing alluring descriptions of the West, paid for by Western railroads, but how many Southern railroads advertise their section to the Western people?

"In all probability the absence of the important Southern railroads at the Southern Exposition is in line with the policy of letting some one else do the South's promoting. But as such it is a miserably shortsighted policy."

The railroads which are still holding back would do well to heed these warnings before criticism becomes too loud to endure.

RAILROADS ENDORSED THE EXPOSITION.

J. RALSTON CARGILL, president of the Chamber of Commerce of Columbus, Ga., in a wire to the MANUFACTURERS RECORD referring to an exhibit that Columbus will make at the Southern Exposition, adds: "The South is under lasting obligation to the MANUFACTURERS RECORD for valuable aid rendered the Southern Exposition."

The aid rendered by the MANUFACTURERS RECORD to the Southern Exposition has been wholly from a disinterested point of view, based on belief that the Southern Exposition could be made of tremendous value to the South, and that is the view expressed by such men as J. B. Duke, Col. E. M. House, Hon. John W. Davis, B. F. Yoakum and many other leading Southern men now living in New York. They are enthusiastic in their belief that the Southern Exposition can be made of great value to the entire South and they are urging the people of the South to be adequately represented.

The Exposition was undertaken by Mr. Sirrine and his associates after very strong commendation of the plan by leading railroad people of the South was given, and in order to make sure that these railroads would stand by the Exposition to the limit the MANUFACTURERS RECORD wrote them ask-

ing for their views as to the importance of the Exposition and their co-operation with it. On the strength of their enthusiastic statements in regard to it, the MANUFACTURERS RECORD vigorously pushed the matter, but unfortunately most of these railroads have not taken an active part either in assisting it or in preparing exhibits of the resources of the country tributary to them.

Some of them, however, we are glad to say, are doing splendid work, and what they are doing will rather put to shame the railroads which have not heartily co-operated.

AN ENTIRE COUNTY PLANS FOR AGRICULTURAL PROSPERITY.

NO more interesting agricultural movement of late has been noted than that recently launched by the Morgan County (Georgia) Farm Board for "promoting the county's prosperity by more abundant and more profitable harvests," as it is explained. The main object is fourfold in nature: To increase agricultural acreage yield, to produce more of food supplies, to conserve the fertility of the soil, and to develop a spirit of community interest.

Two basic principles underly the movement: Diversification of crops and intensive cultivation. No finer foundation for success could be laid.

Furthermore, not only will both white and colored farmers be enlisted in the movement, but the case of each will be considered individually, with relation to his problems and his needs, and the best methods of solving them and meeting them. As Mayor Parker of Madison well says:

"Nothing grips a man so much as accomplishment. If you take one acre or five acres and make more on it than you ever have done before on a like acreage, and more than your neighbors make, then you not only get a profit on your investment of money and labor, but you also are spurred on to bigger and better things, and your neighbor is stimulated by your example to do likewise."

Diversification of crops and intensive cultivation — combined, of course, with industry—are all that generous Nature asks of the Southern farmer as his contribution to his own enrichment. Fertile soil and fine climate have been handed to him in bounteous measure; he is asked to contribute only common sense and industry. So the farmers of Morgan county have adopted the following principles:

"More acres in cultivation; more yields per acre.

"Since our greatest need is greater yields per acre, we recommend the planting of all the soil-improvement crops possible.

"We recommend a more judicious use of commercial fertilizer.

"We urge that every farmer planting cotton this season purchase at least 25 pounds of calcium arsenate per acre.

"That we plant only pure seed from proven varieties.

"That, instead of planting all cotton, we plant at least four acres of peanuts per plow as a cash crop.

"That a special effort be made to grow greater yields of corn per acre.

"That community meetings be held for the purpose of working out community problems, such as the breeding of one variety of cotton, planting one variety of corn, breeding one breed of livestock, etc.

"That the entire county work together as a unit in promoting the agricultural welfare of the county.

"That every farm boy in the country be interested in joining some farm club.

"That every community in the county have a community center farm on which is planted a balanced system of crops.

"We believe that the proper system of cropping for this county is: Three acres of oats, five to ten acres of cotton, ten acres of corn, five acres of peanuts, two acres of soy beans per plow, with soy beans in every corn row, and behind every acre of small grain and hairy vetch planted behind cotton."

This is a practical program, specified in plain, practical terms. The farmers, merchants, financiers and all residents of Morgan county are setting a practical example to the entire South. Who will follow? Similar work should be organized in every county in the South.

BERNARD BARUCH'S LIBERAL-MINDED OFFER TO AID SOUTH CAROLINA FARMERS.

THERE appears to be some doubt as to whether the plan suggested by Bernard M. Baruch for the relief of conditions in the lower part of South Carolina will be fulfilled exactly according to the description of it recently given in press dispatches, although no effort should be spared to make the idea a complete success as he desires it to be. News of the subject was first reported from Washington, stating that Mr. Baruch, now a New York banker but a native of South Carolina, had pledged \$1,500,000 to rehabilitate the boll-weevil stricken sections of that state upon the condition that bankers there would raise an equal amount for the purpose of extending the necessary relief. The same report also said that word had reached Washington that Governor Thos. G. McLeod had signed a legislative act authorizing the \$3,000,000 loan fund to be participated in by Mr. Baruch and the South Carolina bankers. Furthermore, it was said to be a condition made by Mr. Baruch that the local banks which would receive the money for relief must lend it to farmers at the same rate of interest at which they received it.

Announcement of the plan was received with many expressions of approval in that part of the South and in adjacent sections, these voicing hearty praise to Mr. Baruch for his generous offer—to quote one of the editorial utterances—which, it is stated, originated in December last when Governor McLeod was a guest of Mr. Baruch at his South Carolina estate, Hobcaw Barony. Reference was also made to the fact that Mr. Baruch is a son of the late Dr. Simon Baruch, who was a prominent surgeon in the Confederate service during the Civil War, and that he had always felt the deepest concern for the state and its welfare. In his offer it appears that, besides the conditions mentioned hereinbefore, Mr. Baruch said that the relief should go only to banks in financial straits through no fault of their officers.

A letter from Mr. Baruch to the MANUFACTURERS RECORD explains fully his offer and his attitude toward the stricken agriculturists of his native state, whom he wishes to be able to relieve in a broad and practical manner. The letter follows:

"This is to answer your letter of March 27 and to say that this is what occurred:

"Being impressed with the bad conditions in the low country of South Carolina, but feeling that the situation was not so bad as generally believed, I suggested to Governor McLeod that an examination of the banks in that country be made in order to find out whether it would be possible to care for the affected banks in that district and how much money would be required to do this. I felt that all which was needed was to tide over the situation that had come about through the boll weevil and through bad weather and crop conditions over some years. I suggested that they find out how much would be required to care for the frozen assets of the banks, and I agreed to contribute a part of it, provided all the money necessary to handle the situation was raised. I did say that the banks which received money under such a plan must lend it to the farmers at the same rate of interest at which they themselves obtained it, and we discussed 5 or 6 per cent. There would be no reason why the money should be loaned to these banks if they reloaned it to the farmers at a higher rate, because what we had in mind was to make it possible for the present owners to retain their farms.

"I do not know whether anything will be done or not, but I cannot see that the plan can be referred to as generous. It seems to me it is only a matter of enlightened selfishness."

It will be observed that Mr. Baruch's letter does not mention any specific amount of money to be raised either by him or by the bankers in South Carolina, but the press report in which his offer was first mentioned said that he had proposed raising a fund of \$3,000,000 or \$4,000,000 for relief purposes.

In any event it is to be earnestly hoped that there will not be any hesitancy or halting on the part of the bankers in South Carolina immediately to co-operate with Mr. Baruch

in his suggestions that he disclaims as generous, but which are nevertheless so regarded by his fellow countrymen in the South who have been outspoken in their appreciation of his action.

HOW THE INSPIRED WRITER'S DESCRIPTION OF THE PROMISED LAND FITS THE SOUTH.

DAVID WESSON of New York, a noted chemist and chemical engineer, so long identified with the cotton-seed-oil industry, referring to a copy of our recent publication, "The South's Development," says:

"It is one of the finest books of the kind I have ever seen. It is not only a very beautiful volume from a book-making standpoint, but it is also a veritable encyclopedia of information regarding the South. It is hard to say which part of it is most interesting. I am very glad to see Southern historic homes. Beautiful old buildings always interest me. Mr. Whittle's article on the vegetable-oil industry is, of course, right in my line. The article on tobacco tells a great deal in a small space; and so on, all the way through, matters of interest bristle from every page.

"If there is any subject marking the wonderful development of the South which you have left out of your book and which is not wonderfully instructive, I have been unable to find it."

J. D. Quinn of the Franklin Steel Works, Franklin, Pa., suggests that "The South's Development" should be in every public library throughout the country, and adds:

"Its value cannot be estimated."

Prof. William Starr Myers of Princeton University writes:

"I consider this to be one of the most remarkable publications ever issued by our current journalistic interests."

J. T. Beatty, vice-president of the Citizens National Bank, Fort Scott, Kan., referring to a copy of "The South's Development" sent him by S. H. Bollinger & Co., Shreveport, La., writes:

"It sure is some book, and all the boys in the bank want to look over it when I get through, so I will have to take it by homeopathic doses, as you see by the size of it that it will take some time to give it a close examination. Your people in the South are surely first in everything."

F. B. Creech, manager of the Creech Lumber Company, Sumter, S. C., writes:

"It is a wonderful contribution to the country, and is full of information that this generation knows little about."

Thus the good work goes on, and letters almost without end are coming from this country and other countries, telling how the portrayal of the resources of the South and its progress in the past, and the present development, is awakening a widespread interest throughout this and other lands about this Heaven-favored section. At the same time an occasional letter comes to the MANUFACTURERS RECORD from a Southern man, stating that its greatest value, perhaps, will be in acquainting Southern people themselves with their own country, and teaching them to know the South and to know its opportunities.

We believe no man can study "The South's Development," with its long array of important subjects by great leaders in public and private life, without having a new conception of what the South is and what it is to be. The story of this section has been written only in part. Our special publication touched the high spots here and there, but the field for investigation is almost limitless. The work must go on and on until there has been gathered together the basis or data for a real history of the South which some day a historian worthy of the opportunity will write of this section as no other man has ever done, and will give to the world a picture of the Old South, a picture of the Civil War, and Reconstruction days, and of the achievements which the South is beginning to make; and thus far only a beginning has been realized as compared with what the coming years will show.

Every man who reads "The South's Development" will

have a new vision of this section and a new conception of the possibilities which it offers for Southern-born men and women, and for people of other sections, to join hands in the development of this land of opportunities so completely described in the eighth chapter of Deuteronomy, in which, writing of another land, but with a prophetic view which absolutely fits the South, the inspired writer said:

"For the Lord thy God bringeth thee into a good land, a land of brooks of water, of fountains and depths that spring out of valleys and hills;

"A land of wheat, and barley, and vines, and fig trees, and pomegranates; a land of oil olive, and honey;

"A land wherein thou shalt eat bread without scarceness, thou shalt not lack anything in it; a land whose stones are iron, and out of whose hills thou mayest dig brass."

"SENTIMENTAL TEACHERS AND SOCIETY WOMEN."

A FEW weeks ago the MANUFACTURERS RECORD had an editorial commenting on the appointment of Leon M. Estabrook of the United States Department of Agriculture to a responsible position in connection with the International Institute of Agriculture at Rome, in which, by reason of Mr. Estabrook's early struggles in life, we poked a little fun at the Child Labor Amendment advocates in expressing the thought that it was fortunate for Mr. Estabrook that these sentimentalists were not in existence when he was starting life.

Indeed, the same thing might be said of nearly all the successful men in this country, for they nearly all had a start like Mr. Estabrook, with but slight advantages from the material or educational point of view. In acknowledging receipt of that editorial Mr. Estabrook writes:

"It is incredible to me that any considerable group of intelligent people should advocate legislation prohibiting children and young people from being usefully employed before they are eighteen years old. I suspect that if there is such a group, it must have been recruited largely from the ranks of the new generation of sentimental city school teachers and society women without practical experience, who appear to be obsessed with the theory that education should consist of games and amusements; that because youth is the happy playtime of life it should be prolonged into early manhood and womanhood, and that preparation for the future should not be influenced by any participation in the toil, privations and responsibilities of life.

"People with such views overlook the fact that schooling is simply the foundation or preparation for the education that comes from contact with the practical conditions of life, from reading, observation, experience and developed judgment. Very often the boy who is denied the opportunity to go to school, but works with men, not only learns a vocation but develops habits of industry, patience, persistence, thrift, and, above all, self-reliance, fearlessness and independence of thought and judgment along with ambition and initiative. These qualities are not often taught or acquired in school, and without them a large percentage of high school and college graduates are failures."

FACTS ABOUT ELECTRICITY.

ACCORDING to the statement made by John W. Howell, to whom the Edison medal was awarded, "the electric light has improved 325,000 times in quality since 1881, and lamps can be made 150 times as fast today as then.

"The United States uses more power than all the rest of the world.

"Electricity is the one national commodity whose cost has continually decreased in spite of the war."

These are remarkable statements. The consumption of power in the United States typifies the magnitude of the industrial and general development of this country as compared with the rest of the world.

GEORGIA ON THE MOVE.

J. CLAY MURPHEY, a real estate operator of Macon, Ga., in sending the MANUFACTURERS RECORD an account of a new movement under way in Georgia looking to the upbuilding of that state, referring especially to the situation around Macon, says:

"I have found since returning to Macon that business here is unusually good, with prospects for a very large and growing expansion in almost every line in this immediate section of Georgia. I do not think I have ever seen our people more optimistic or more willing to devote their efforts and resources to the development of our opportunities."

A state-wide advertising committee has been formed and has outlined a program of publicity which it is proposed shall be carried to all parts of the country. The members of this committee are J. Clay Murphey of Macon, H. Land of Columbus, Benjamin B. Watkins of Atlanta and P. R. Lily of Valdosta. This committee has issued the following pronouncement as to the work which it hopes to accomplish:

"The Georgia Real Estate Association is devoting its major effort this year to state-wide advertising, expecting to do some advertising with its own funds and hoping to stimulate every other organization and citizen in the state to do likewise," says the announcement.

"Advertising Georgia will not only bring others into Georgia but will reveal to our own citizens the wonderful assets and resources of this land of opportunity.

"Examine a map of the United States and study the location of Georgia—just north of Florida—as far south as southern California, a temperately mild sub-tropical climate. Average annual temperature 64 degrees, 43 inches rainfall, 244 growing days. Mountains, Piedmont plateau, coastal plain and seacoast. Ample capital, hydro-electric power, raw materials and untapped reservoir of native labor, Georgia offers a greater opportunity for industrial expansion (quoting the MANUFACTURERS RECORD) than all of New England combined.

"The eyes of the nation are on the South, and Georgia is peculiarly equipped and located for a program of expansion and development.

"With hundreds of thousands of Florida tourists coming to our very doors every year, we have an unusual opportunity to advertise at first hand and an easy access to many who are prospecting for new locations.

"The Georgia Real Estate Association, therefore, wishes to urge upon every citizen of Georgia the importance of state-wide advertising, and begs to submit herewith our program of advertising Georgia during 1925:

"1. Let every organization in Georgia—state and local—including Bankers' Association, Georgia Press Association, manufacturers, merchants, railroads, civic clubs, senior and junior chambers of commerce, appoint at once a state-wide advertising committee with authority and some funds to advertise Georgia. However small the amount, make a start.

"2. Let every organization above mentioned, especially the civic clubs and chambers of commerce, pass a resolution asking the State Legislature to appropriate \$100,000 to advertise Georgia. This is recognized as the most improved and effective method, and we believe public sentiment will strongly endorse it.

"3. Let every letter that is sent out of the state contain some pamphlet or literature advertising Georgia. Every chamber of commerce and civic club should issue such pamphlets and distribute them among their members and urge them to mail out of the state.

"4. Promote the erection of a reasonable number of large, attractive signs on the leading highways, each sign advertising one important asset or opportunity in Georgia. Each county to handle this in the most effective way.

"5. Request each newspaper in Georgia to designate one member of its staff to study Georgia, her resources, her assets, her opportunities, and to publish regularly, periodically, persistently, on the front page and in important positions, every item and fact that is of a constructive, progressive and encouraging nature, to emphasize the importance of our growth and achievements, to the exclusion of petty crime, cheap politics and family dissensions, and emphasize Georgia's efforts, opportunities and accomplishments. It is in the power of the Georgia press to give a new psychology, and a new vision to our citizens, and we call on them with all the earnestness at our command to study this great ques-

tion of advertising Georgia and help us not only to clear up the surprisingly large amount of ignorance and misinformation prevailing in other sections about the South, but to bring home to our own people a true conception of this state, by persistent publication of our advantages and necessity for advertising Georgia.

"6. To join with others in designating some strong state-wide agency, strong enough to appeal to and command the confidence of our people, in raising without delay a fund of \$150,000 with which to advertise Georgia.

"7. To distribute literature on the tourist trains and in every tourist camp and hotels.

"8. Request each organization and civic club in Georgia to advertise in their national trade journal, bankers using Bankers' Magazine; manufacturers, MANUFACTURERS RECORD; Rotarians, the Rotary Magazine; Kiwanis, Lions, Civitans, Exchange and Optimist clubs likewise. Each club to use one-half to full-page advertisements of Georgia.

"We pledge our own energies, efforts and money to this plan, and urge all other organizations to join us that this movement may crystallize into a real, vital state-wide effort.

"We respectfully invite resolutions, suggestions and methods."

Here is a definite plan which looks to creating a spirit of optimism in Georgia about Georgia, and sending that spirit of optimism to the people of the country at large. It is but one more indication of the awakening of the South which will soon to a large extent revolutionize this whole section. We have made great progress in the South, but we can make far greater progress in the next ten years than we have made in the last twenty-five if the spirit which is alive in Florida and Georgia and other states spreads to every village and hamlet and city and state throughout the entire South.

Boundless is the South's opportunity. The utilization of this opportunity will depend upon how active and aggressive the people of the South become in availing themselves of it.

INSIDIOUS PROPAGANDA THROUGH EDUCATION.

THE program for the fifth annual session of the Institute of Politics, as announced by Dr. Harry A. Garfield, president of Williams College, is not without interest to such persons as may watch the dissemination of insidious propaganda on sundry lines through educational channels. Says a news article:

"Count Antonio Cippico, Italian Senator and Fascist, heads the group of lecturers. He is a supporter of Premier Mussolini and has chosen 'Italy and the Mediterranean Area' for the subject of his six lectures, the last two of which he will devote to Fascism. Dr. William E. Rappard of Geneva, member of the Permanent Mandates Commission of the League of Nations, will speak on the subject, 'The League of Nations.'"

All the lectures may be interesting, and to some degree informative, but the fact remains that the doctrines of the League and of Fascism and of "world democracy," in which the United States is being inveigled into playing a leading role, will be preached apparently in preference to sound nationalism for America and for each of the great nations of Europe.

WHERE MORE HOTELS ARE NEEDED.

W. F. STOVALL, president of the Tribune, Tampa, Fla., in a letter to the MANUFACTURERS RECORD says:

"What this city needs is about 20 more hotels, averaging from 150 rooms to 300, with bath, and the Tampa Bay Hotel metamorphosed for the high-class tourist trade. I am frank to say to you that had we had 20 more hotels this winter, every one of them would have been filled and overflowing. The Tribune is advocating daily the erection of more hotels and apartment houses."

FINE SHOWING OF A BIG RAILWAY SYSTEM SOUTH COMPARED WITH TRANSCONTINENTAL LINES.

ACCUSTOMED to be regarded for so long as "the coming section" of the country, the South as a whole has not awakened to the fact that it has "arrived" in many respects, and among the most prominent of its achievements is the enlargement and the prosperity of its great railroads. It is true that what the Southern trunk lines are doing is reflected in their reports, but as comparatively few persons study the statistics of such publications and contrast them with the reports of systems in other parts of the country, the results of a consideration made by Case, Pomeroy & Co. of New York of the combined monthly statements of the Southern Railway Company for the months of January and February this year are especially interesting and revealing. This firm says:

"If volume of railway traffic is a measure of general prosperity, the states served by the Southern Railway should be in a most cheerful mood. People are so accustomed to think of the great expanse of territory covered by the leading transcontinental railroads that perhaps they do not realize how the volume of traffic moved by the Southern Railway system compares with that of the large transcontinental systems. In making such a comparison the gross revenue of the Southern Railway's subsidiary companies is included so that we may compare that system with other complete systems.

"Atchison, Topeka & Santa Fe is one of the largest and strongest systems in the United States, extending from Chicago through the Southwest to the Pacific Coast and operating 11,782 miles of road. Southern Railway system, with 9,299 miles of road, showed gross revenues for January and February, 1925, of \$33,441,825, against a gross for Atchison of \$35,792,336. On a per mile basis Southern's gross revenue was \$3597, against \$3030 for Atchison.

"Southern Pacific is another very large transcontinental system, operating 12,490 miles of road. Southern Pacific's gross revenue for January and February was \$41,833,241 and its gross revenue per mile of road was \$3349.

"Union Pacific is generally recognized as one of the finest railroad properties in the country. It is very close to Southern in mileage, operating 9,526 miles of road. Union Pacific's gross operating revenue for January and February was \$26,994,033 and gross revenue per mile was \$2834.

"Figures for net operating income are still more striking in favor of Southern. Net operating income for the two months per mile of road was \$707 for Southern Railway system, \$588 for Atchison, \$283 for Southern Pacific and \$401 for Union Pacific.

"The roads covering the Northwest, including Chicago & Northwestern, Chicago, Milwaukee & St. Paul, Great Northern and Northern Pacific, have been laboring under unusual difficulties, due to certain operating and business conditions which have handicapped the railroads serving this territory. Southern Railway makes an even stronger showing in comparison with these roads."

It is further remarked that the Southern Railway for the first two months of 1925 has not only far exceeded the Southern Pacific and the Union Pacific systems in net operating income, but it is only \$357,000 behind Atchison, which operates 2483 more miles of road.

Here is a convincing showing of the prosperity of the South as reflected in the monthly statement of earnings of one of its railroads.

HOW TO ENRICH THE SOUTH.

S. S. PRATT, president and sales manager of the Volunteer S. Fuel & Iron Co., LaFollette, Tenn., in the course of a letter to the MANUFACTURERS RECORD said:

"My observation has been that there is a steady flow of population southward, and with the tremendous potential reserves all that is really needed is a 'sale' of the idea to people with foresight and with wealth to accomplish idealism."

Mr. Pratt is entirely correct. There is a southward trend

of industry and of population. The people of the whole country are awakening to what the South is, what it has and what it is to be. To crystallize this awakening sentiment it is only necessary for the railroads, the individual business interests and commercial organizations of the South to put on an aggressive campaign and keep it up for the next few years in order to turn a floodtide of prosperity to the South.

Brain and brawn and capital of the South itself can be stimulated to do larger things by such a spirit of activity aroused in every community, and this would result through the proper publicity in bringing brain and brawn and capital in an endless stream from every section pouring into the South for the benefit of this section and the whole country.

The South is waking up, and the North and the West are waking up to a realization of what the South is and what it will be.

Let all the information about the South be spread throughout the nation, not once or twice, but a hundred times, day after day, month after month, year after year, and then in every state of the South will be found that degree of prosperity and enthusiasm which is making Florida today the center of the country's thought.

WHAT FLORIDA COULD DO IN INDUSTRY.

IN a letter to Governor John W. Martin of Florida, L. M. Drake, a widely known chemist, whose laboratory is at Daytona, discussed the whole business outlook for Florida and the future of that state, with special emphasis upon the need of the establishment of industrialism based on the development of Florida's immense natural resources. In the course of his letter Mr. Drake said:

"Florida could produce immense quantities of rubber, fibers for paper, which is so rapidly depleting our forests; vegetable and fish oils; waxes, gums, drugs, new foods in vegetables and grains, enormous mineral wealth, and in this development provide maintenance for our coming youth, our native children. Industrialism is the backbone of any Commonwealth,

"The Florida Development Board has recommended \$200,000 for advertising the state. This has your support. It is very commendable. But this state's great opportunity lies in the Southern Exposition, held in New York city next May. The \$200,000 spent by this state would buy but a fraction of the advertising we need, which would come to us in being represented at this Exposition of Southern states. We could make a great exhibit. The press of the nation would express its wonder. Interests would be awakened hard to reach otherwise. It is a great opportunity. It should be acted upon at once to do the state justice. Florida's failure to be represented would be very costly, almost calamitous. It would express indifference and speak for us a paramount interest in tourists which depends on national pleasure-seeking, which is not intrinsic. It would turn great capital away and postpone indefinitely the researches pressingly needed for our industrial development. Cannot something be done?"

THIS FRIENDSHIP MUST CONTINUE.

"I CAN see nothing to be gained at this time by our belittling in any way the assistance that France gave to the Colonists in the days of trial in their trouble with England. * * * Neither can I see anything to be gained on the part of France by belittling the assistance that we rendered in the World War to her," says Senator Dill of Washington. Such an utterance of sound sense is refreshing in the debate on payment of the French debt to the United States. The cordial, co-operative friendship of the United States and France is of too long standing and too intense sincerity to be broken in an adjustment of a business transaction. Civilization demands that this friendship remain unweakened and unassailed.

IT IS AN ASSET TO THE NATION.

ACHIEVEMENTS of the Co-operative Education Association of Virginia are modestly set forth in most interesting fashion in the twentieth anniversary report, a pamphlet of real importance. No dry, cold statistics discourage the reader; actual work is described in engaging summaries from various counties, and the attention is held throughout.

Organized in 1904, the Co-operative Education Association of Virginia "is engaged in the task of building better community life through developing in the individual citizen a knowledge of, and a desire to serve, his home community," as President Mary Cooke Branch Munford explains it. Under the caption, "Conclusion," Executive Secretary George W. Guy adds:

"The interests of all are greater than the selfish interests of the few. For the past 20 years this Association has devoted itself to this program of unselfishness. * * * From the very beginning it has had as its basic tenet 'self-help,' 'local initiative.' This process, as all educational processes, has been slow, but our 20 years' experience has taught us it is the only sure way. As in learning, there is no royal road to community work. It is only by continuous labor and sacrifice that this pioneer work has blazed the trail for larger and wider fields of service. Each community must actually lift itself by its own bootstraps."

In short, this fine organization is working on strictly practical lines rather than through "preaching" and sentiment and emotionalism. So concrete results of tremendous value are attained.

Opening this report at random, for instance, one finds that in Wise county the community league at Appalachia paid \$500 on a wall around the school building, gave \$100 to child-relief fund, furnished a rest room for a school building, made a membership drive and obtained 167 members, requested the Town Council to enforce the health laws and appointed a committee to beautify the school grounds—any one of which achievements alone might have been well worth the work of that league. At Hutcheson, in Mecklenburg county, the community league bought a piano, added new books to the library, graded the grounds and raised \$250, while at Oakland, in Culpeper county, the junior league purchased a volley ball, a football and a flag; sold Christmas seals and Near East Relief meal tickets, made a donation to the Jefferson Memorial fund, won five prizes at the Tri-County Fair, cleared the grounds and raised \$50. These are samples, glimpsed off-hand, of the general line of work and accomplishments of these enthusiastic toilers.

The benefits of such an organization and its work are twofold: Each community unit is improved spiritually, mentally, morally and physically; each worker is uplifted individually in all these characteristics, and is also made a better Christian, as well as a better American citizen. The aims and purposes of the junior community leagues are thus given: First, citizenship; second, school spirit; third, health; fourth, athletics and recreation; fifth, self-improvement. Given these aims and purposes, the youngsters are started on the road to 100 per cent attainment, and apparently they come close to fulfillment.

In itself, the Co-operative Education Association of Virginia aims to organize and foster community leagues, to organize and foster junior leagues, to organize county councils, to make the public school a community center, to encourage more intelligent citizenship and to develop co-operative effort for community growth. It works under the direction of the Governor of Virginia, the state departments, the higher institutions of learning and a group of citizens.

Truly, in the Co-operative Education Association of Virginia and in similar organizations throughout the land is provided a combination of idealism and practical work which inevitably must bring forth fruit to the glory of God and the betterment of childhood, of womanhood and of mankind.

The Exposition Is the South's Show Window.

SEABOARD AIR LINE TAKES 800 SQUARE FEET OF SPACE—PROGRESS IN LOUISIANA AND OTHER STATES.

Near to the last lap in preparation for the Southern Exposition at the Grand Central Palace, New York city, May 11 to 23. Southern states and cities, railroads and industrial enterprises, religious and educational elements this week displayed both enthusiasm and progress, and indications were strong that the South would "do itself proud" in the eyes of the world. Realization of the tremendous importance and opportunities of the Exposition has spread through many circles, and public agencies and private business have come well to the forefront.

On behalf of the Seaboard Air Line Railway, Charles A. McKeand, industrial agent, writes to the editor of the MANUFACTURERS RECORD:

"I have to advise that the Seaboard will occupy approximately 800 square feet of space, to be devoted to showing agricultural and industrial resources in the territory served by our lines in Virginia, North Carolina, South Carolina, Georgia, Alabama and Florida. Due to the 'off season' on agricultural products, the exhibit will be largely photographic and statistical. The industrial portion of the exhibit will be based on a geological survey, recently completed by our road, as well as the industrial survey which was conducted by Lockwood, Greene & Co. some months ago.

"Attractive literature will be available for distribution to interested parties, and a staff of representatives of the development department, thoroughly familiar with the territory traversed by our lines, will be in attendance at the Exposition all the time.

"Continuous motion pictures—some 15,000 feet of film—of various agricultural and industrial resources will be shown from 2 P. M. to 10 P. M. in a small theater to be erected in our booth."

Typical of what many of the states are doing is a report for Louisiana by Leon I. Kahn, chairman for that state, in which he gives the following details:

"Dock Board—Has signed for 600 square feet of space and is preparing an extensive, expensive and interesting exhibit.

"Yellow Pine Exhibit—At a convention of the Southern Pine Association here it was unanimously agreed to allow the entire Southern pine exhibit to be used in the Louisiana display, and E. A. Frost has assured me that they will now go ahead and arrange for the occupancy of 400 or 500 square feet of space.

"Petroleum Display—There has already been completed an interesting and attractive working model of the oil field. The Mid-Continent Oil Association, which represents all the oil companies, will raise the necessary amount for 400 or 500 square feet.

"Conservation Department—The Conservation Department of Louisiana, through Mr. Everett, has expressed a desire, and I believe is certain, to occupy 600 square feet of space and present a wonderful exhibit.

"Agricultural Department—An effort will be made to decide on some way to provide for 600 square feet of space for this department.

"Highway Commission—The Highway Commission subscribes for 200 square feet to show the accomplishments of road building in the state.

"Educational—Is expected to take 200 square feet.

"Health Department—Already has a very interesting exhibit prepared, but on account of the new board, which will be appointed in a few days, it has been decided by the Health Commission to wait until that time to get the approval.

"City of New Orleans—The City Commission subscribed 200 square feet by the Mayor and Commission of Finance.

"Southern Cotton Oil Company—The head of this organi-

zation has referred to New York the subscription of 200 square feet for their approval.

"Southern Kraft Papers—Mr. Dobson strongly advises taking 200 square feet, and will ask the approval of the Southern kraft paper interests.

"St. Charles Hotel—Has already subscribed for 100 square feet, and it is very probable that the Roosevelt Hotel will do the same.

"State Realtors—Are getting up a co-ordinated display occupying 200 square feet and are making a canvass throughout the state for it.

"Homestead Associations—Preparing for 200 square feet and making a similar campaign.

"Southern Pacific—Mr. Fondren has selected 200 square feet adjoining the Louisiana and Texas states.

"Salt—May be represented by the Myles Salt Company.

"Cottonseed Products—Plans are up with the Louisiana cottonseed crushers, with hope of securing their Southern exhibit.

"Sugar—American Sugar Refinery has recommended to New York that they subscribe for 200 square feet and are only awaiting confirmation of it.

"Orange Grove—Possibly will require 300 square feet.

"Rice—Mr. Foster of the Southern Mills Company has agreed to take leadership in this matter.

"Bee Crusher—Mr. Kelly of the Gulf Coast Apiary is making a canvass throughout the state with a view of getting sufficient funds to buy space, which will be augmented by a most interesting exhibit."

An idea of what the cities are doing may be gathered from the work of Baltimore. In addition to its many other features, Baltimore, through the Mayor's committee and the Exposition committee of the Association of Commerce, has arranged for an auditorium with a seating capacity of 600, to be placed in the center of the exhibit. Directly in front of the auditorium will be the electrical stage, where spectacular electrical effects illustrating the founding of Baltimore, its early history, the Baltimore fire and incidents in the life of the city will be depicted. Surrounding the auditorium will be large gilt-framed pictures portraying Baltimore industrial and civic opportunities.

Texas reports that its Governor, Mrs. Miriam A. Ferguson, has been named an honorary vice-president for the Exposition, and hope is entertained that she will inspire the great interests of the Lone Star State to display adequately the many features of all kinds which contribute to its prosperity and advancement.

As a unique feature of the Exposition, Greenville, S. C., proposes to present an exhibit to show the world that a person standing on top of one of its buildings can see the entire operation of the cotton industry, through all the various steps—can see the cotton being grown, ginned, woven, finished, dyed and sewed into garments, all from one point of observation. At a meeting of the directors of the Chamber of Commerce H. C. Swannell was named chairman of a committee to be chosen by him and Roger Huntington to direct the work of the Greenville exhibitors.

Announcement that President Coolidge would open the Exposition was made some time ago, and expectation prevails that more than one high official of the Government will see the wonders and opportunities of the South as they may be outlined in the Grand Central Palace.

In view of the fact that exhibits must be put into place well before the opening day, time grows short and all prospective exhibitors must act and work quickly to assure full success.

A Challenge to Georgia.

[From the Atlanta Journal.]

There should be instant and state-wide response to the renewed appeal for subscriptions to the fund of \$20,000 for giving Georgia a creditable exhibit at the Southern Exposition in New York city. No richer opportunity for bringing our Commonwealth's resources to the attention of investors and some-seekers from all parts of America was ever presented. The Exposition, which is to be held May 11-23 at the Grand Central Palace, in the heart of the nation's metropolis, is being advertised the continent over and in countries across the sea. It will attract not thousands but millions of visitors, and especially will it interest men and corporations who are looking out for lands to develop and industrial possibilities to utilize. Georgians cannot afford to let their state be unrepresented or inadequately represented in so great and so fruitful an enterprise.

Maryland, which, like Virginia and North Carolina, has reserved extensive space in the Exposition hall, thus defines its purpose in having done so:

"First—To interest capital in our industrial plants, in our public-utility companies, in our state, municipal and other bonds, in buying our land.

"Second—To attract business men interested in various lines of manufacture and commercial enterprises who may become interested either in opening new industrial plants or establishing branch factories and stores.

"Third—To interest capital to invest in and develop our agricultural, horticultural and grazing lands, and also to interest the desirable foreign-born who came from agricultural lands across the sea and who are seeking information along these lines.

"Fourth—To show our wonderful rail and water transportation facilities and their effective reach to all parts of the nation.

"Fifth—To exemplify the greatness of our financial institutions, bonding and fidelity companies and our superb educational institutions.

"Sixth—To give those interested in our mines, timber, clay, rolling mills, fisheries, phosphates, quarries, agricultural products, etc., the greatest market in the world.

"Seventh—To give to our manufacturers and merchants not only a chance to show the diversity of products made and offered here, and the big volume in which they are produced, but also giving a practical opportunity for both manufacturers and wholesalers to make sales and achieve actual business at the Exposition."

Each of these purposes strikes straight home to Georgia. Our industrial, our commercial, our agricultural interests all will be promoted by a worthy exhibit at the great Exposition and, just as certainly, they will all be done a grave disservice if the state is not represented. The time for completing the requisite fund of \$20,000 is short, but the need is imperative and the inspiration all-sufficient. Let every Georgian do his duty.

The Great New York Chance.

[From the Charlotte Observer.]

Mr. Richard H. Edmonds, editor of the MANUFACTURERS RECORD, has no financial interest in the Southern Exposition that is to be staged in Grand Central Palace, New York, from May 13 to 23, but he is intensely interested in the project from the standpoint of Southern welfare. Indeed, this Exposition, as has been maintained by the Observer, will afford a greater opportunity to advertise Southern enterprise and resources to the world than any that has been presented in the past or that may come along for some time in the future. It is perhaps unfortunate that the original plans of the Exposition were changed and a later date agreed upon—for North Carolina at least—because the legislature had set aside a fund of \$15,000 toward a state exhibit. The appropriation was permitted to lapse, however, and the only hope of a creditable exhibit by the state is in individual and corporate activity. So far, if our information is correct, Asheville is the only town in the state that has taken space in the North Carolina section—and Asheville has taken 1000 feet. A diagram of the Exposition floor shows that North Carolina has been assigned one of the main sections, along with Maryland and Virginia. Both these states have made arrangements for elaborate exhibitions, while the North Carolina floorage, with the exception noted, remains blank.

The prospect is not creditable to North Carolina initiative and enterprise. The lack of interest develops a situation

of indifference quite foreign to North Carolina progress and advancement. But it is not too late. Manufacturers, waking up to the opportunity, may yet save the great chance. The state appropriation is hopeless, and not many towns will take a financial responsibility. Individual activity, however, can save the reputation of manufacturing North Carolina. The textile industry could, with small effort and determination, make display that would adequately show the variety and extent of manufactures in that line.

Alabama Will Be There.

[From the Birmingham Age-Herald.]

Alabama is to be represented at the Southern Exposition in New York despite the fact that some of those with civic responsibility thought it could not be done. But nothing is too much for Alabama to undertake if citizens are given the right leadership.

The visit of Vice-President J. H. Nixon of the Exposition has resulted in the selection of an Alabama committee which it would be difficult to improve upon. The members are not only men of ability, resourcefulness and energy, but they have the vision of Alabama's destiny and will know best how to make the outside world see it. Theodore Swann, the chairman, is a wheelhorse for achievement. He is the man who believes Alabama's broadest path to greatness leads through industrial chemistry, and he is rapidly demonstrating his theory by his own works. George G. Crawford represents the state's largest industrial corporation. Col. R. A. Mitchell of the Alabama Power Company is an east Alabama native who believes heart and soul in his state's destiny, and he has already done much effective service in bringing new industries to Alabama. Robert Jemison, Jr., is one of the best informed men in the South on land and investment questions; L. Sevier as head of the Alabama manufacturers is in close touch with the state's manufacturing needs and possibilities, while Donald Comer is an authority on the textile industry, which is so rapidly growing in bulk and importance in Alabama and throughout the South.

Alabama citizens may well be satisfied that their state's resources are to be in New York alongside those of other Southern states, and may take pride in the results of a comparison of their resources with those of their sister Southern Commonwealths.

Advertising Georgia.

[From the Atlanta Journal.]

The announcement that prizes amounting to \$20,000 have been offered for suggestions of the product best suited to manufacture in Florida brings to mind that this is precisely the sum which enterprising Georgians are trying to raise for a similar service to their own state. It is their desire to place on exhibition in New York, at the Southern Exposition, the resources and products of Georgia, and to publish to the world its advantages and attractions to homeseekers. The money has been slow in coming, but it is coming.

Capital was induced to go to Florida by the courage and enterprise of Floridians. It was drawn there by the genius of the people who set their sights high and challenged defeat. Now the flow of immigration and of capital increases, and is taken care of by the momentum that has been set up. Florida does not possess a natural attraction today that it did not have long years ago when its fortunes were at their lowest ebb, and, what is more important to Georgians, is that it has today not one-half the natural wealth and resources of their own state.

Do we, too, need to offer a prize to set the world talking and thinking about Georgia? If so, let us not do things on a small scale. And, first of all, let us see to it that Georgia is well represented at the Southern Exposition in New York.

State Days at the Exposition.

The Southern Exposition days have been divided into interims devoted to the various Southern states. May 11 will be opening day, May 12 Maryland Day, May 13 Virginia Day, May 14 Carolinas Day, May 15 Georgia Day, May 16 Florida Day, May 18 New York Day, in view of the close connection between New York capital and industrial development in the South; May 19 Alabama and Mississippi Day, May 20 Louisiana Day, May 21 Texas Day, May 22 Tennessee and Arkansas Day, May 23 Kentucky Day.

Good for Columbus—Let Others Follow Its Wise Example.

[From the Columbus (Ga.) Enquirer-Sun.]

The Baltimore MANUFACTURERS RECORD notes with favorable comment the action of the city of Atlanta in appropriating \$5000 for an exhibit in the great Southern Exposition, to be held in New York city next fall, which followed Baltimore in appropriating the sum of \$6000 for a similar purpose. The MANUFACTURERS RECORD says the appropriations made by these two cities "should be an inspiring example to all other cities of the South."

The MANUFACTURERS RECORD fails to note that Columbus long ago, at a time when action was necessary to stimulate the efforts underway to make the Exposition what it is hoped it will be, made an appropriation far more generous in proportion to the size of the city than either Baltimore or Atlanta has made. A fund of nearly \$2500 was raised several months ago to place a Columbus exhibit in the Exposition, and 500 square feet of space which has been paid for has already been allotted to this city. J. Ralston Cargill, president of the Chamber of Commerce, who had charge of an exhibit in an exposition of this kind in New York a year or two ago, and who realizes the great value to Columbus the right sort of an exhibit in the coming Exposition will be, made a trip to New York several months ago and arranged for space for the city of Columbus.

The MANUFACTURERS RECORD, discussing the value of an exhibit in this Exposition, says that "no one of the leading cities of this section should be found missing in the rollcall of exhibits at the Southern Exposition. As New Orleans is to be represented there, showing its docks and wharves and other activities, so Galveston, Houston, Mobile, Charleston, Savannah, Norfolk and other ports should follow and thus give the people of the East a realization of the magnitude of the shipping facilities of these ports." And not only does the RECORD urge the ports of the South to be represented, but industrial centers as well, saying: "The industrial centers of the South should likewise be represented by municipal exhibits, while states and individual interests should vie, one with the other, as to which shall outdo the other in exhibits worthy of their resources and this opportunity."

In making an exhibit at this Exposition Columbus interests are pursuing a policy squarely in line with the work now being done by the Chamber of Commerce in its efforts to set clearly before the world the resources and advantages possessed by Columbus as a favorable site for the location for manufacturing and industrial plants of every kind and character. And such an exhibit as will be made will be one of the best means of conveying this information that could be adopted. New York is the mecca of millions of people annually. They go there in larger numbers than to any other city in the United States. Therefore, in taking an exhibit there to be shown in a great Southern Exposition Columbus will place herself before a larger number of representative business men of the country than would be the case if the exhibit should be made anywhere else.

And never in the history of Columbus has this city had anything like as much to offer as it has now. While it has always possessed great natural advantages, which have become known far and wide, to these the enterprise and ingenuity of the people of this community have added many, and today Columbus stands among the foremost cities in the South as a site for the establishment of plants. We of Columbus know this, and we must impart this knowledge to others, especially to those who contemplate building manufacturing industries of any sort in the South. The best, the most effective, method of letting this fact be known is to show them. We may tell them what we have and what can be done here, but there is no plan that we may adopt that will be as impressive and convincing as that of actually showing them. And this is what is proposed to be done by making an exhibit in the great Southern Exposition.

Before Baltimore had grasped the importance of being represented in this Exposition, and before Atlanta had, perhaps, given the matter serious thought, Columbus was wide-awake and moving in the matter, securing space and actually preparing to make an exhibit.

The lesson is obvious.

A Worthy Enterprise.

[From the Banner-Herald, Athens, Ga.]

The Southern Exposition, which is to be held in New York from May 11 to 23, offers a most inviting opportunity for the people of Athens and surrounding country to present to

the people of the nation the many advantages possessed here for homeseekers and investors. At this Exposition there will be thousands of visitors from all parts of the country; they will be there prospecting and investigating all sections of the South with a view of locating wherever the best advantages are presented. Other Southern states have secured exhibit space and will have representatives there to represent and advertise their localities. Athens cannot afford to miss the opportunity which is offered, and a movement should be commenced immediately for the purpose of raising a fund sufficient to place on exhibition a creditable showing from this section. Our Chamber of Commerce could not render a greater service to the community than fostering and sponsoring such a movement and following it up to a successful conclusion. The money can be raised and the exhibit secured if the proper effort is made for that purpose. The opportunity is here; it is important to act NOW.

"Exposition a Historic Mile Post."

Under the caption, "Helping America to Discover Columbus," J. Ralston Cargill, president and manager of the Columbus (Ga.) Chamber of Commerce, writes in the Columbus Ledger:

"On May 11 Muscogee, advertisingly speaking, will move to Manhattan, and in the metropolis of the New World America will be invited to discover Columbus.

"Beginning with that date and for a period of two weeks, Columbus will utilize to the fullest extent the opportunity afforded by the Southern Exposition at Grand Central Palace, New York city, to present its claims for recognition as an ideal city for the location of new industries.

"Space to the extent of 500 square feet has been purchased and paid for; tentative plans are being made for an attractive exhibit of Columbus products; advertising matter in the shape of Columbus booklets is ready for distribution, and representatives of Columbus, salesmen for the city, will be in the booth with 'order books' ready to point to the dotted line.

"It will be a great Exposition, wherein the states and cities of the South will, for the first time, stage a comprehensive exhibit of its matchless resources of mine and forest, the fruits of the soil and the products of industry, and carry to the North the spoken as well as the printed word of those essential elements for industrial success—mild and equable climate, contented native labor, ideal living conditions, adequate transportation by highway, rail and water, and hydro-electric power.

"There will be friendly rivalry, for competition between cities is keen, but Columbus will have the 'goods' to deliver.

"Every loyal Columbus citizen will feel a personal interest in the Columbus exhibit, and in the effort to 'sell' Columbus, for back of this effort is the fixed purpose and determination to attract new industries, new people and new capital to our city.

"To be great Columbus must co-operate. And as we prepare to swing into the second quarter lap of the Twentieth Century the Southern Exposition may become a historic mile post for Columbus in the race for industrial supremacy."

Will Build 500 Homes at Tampa.

Tampa, Fla.—Plans for a big home-building program in this city, involving the erection of 500 dwellings, have been announced by Frank Bryson, Tampa realtor, associated with a number of capitalists. Mr. Bryson is developing Suburb Royal and will soon market another subdivision; the erection of the proposed dwellings will not be confined to these two developments. Plans call for building the homes in units of not less than 20, the first unit to be started at once.

To Drill 20 Gas Wells in Texas.

Galveston, Tex., April 4—[Special.]—Boston and Galveston interests, headed by W. L. Moody III of Galveston, plan to drill twenty natural-gas wells in southwest Texas to augment the supply from five wells they now own, producing 300,000,000 cubic feet daily. These interests have more than 200,000 acres of land leased in the White Point, Refugio, Edna and Live Oak county gas fields, it is said.

Railroads Will Spend Much Money This Year.

A TOTAL OF A BILLION AND A QUARTER OF DOLLARS IS EXPECTED—WHAT SOME SOUTHERN ROADS WILL DO.

"Big money" is going to be spent by the railroads this year. A rough estimate of the grand total of capital expenditures that will be rolled up before January 1 next—that is, money which will go right into the properties, wholly separate from the sums required to conduct operations—shows that it is very probable it will reach the high figure of \$1,250,000,000, or a billion and a quarter of dollars. Adding to this aggregate the cost of the purchases which railroads have to make annually in order to keep things going, or \$2,000,000,000 more, we have a huge annual total of \$3,250,000,000 that is expected to be disbursed during 1925. This is, of course, only for construction, equipment, betterments, and also for materials that are consumed, the first three of these items being in the line of capital expenditures.

The MANUFACTURERS RECORD has received from a number of the leading railroads whose lines are either wholly or partly in the South statements of their probable budgets for the current year. Some of the companies have not yet completed their list of expenditures, notably the Pennsylvania Railroad, which according to tentative estimates published in Philadelphia, where the headquarters of the system are situated, will spend \$60,000,000, of which \$35,000,000 will go on the physical property itself and \$25,000,000 on equipment. But many other trunk lines have made up their lists of proposed expenditures for the year and among them are those here quoted.

President W. B. Storey of the Santa Fe System says: "Our total budget for 1925 amounts, roughly, to \$60,000,000, comprising \$26,000,000 for the completion of work now authorized, \$21,000,000 for new work, \$8,000,000 for new equipment and \$5,000,000 for new lines. In our work now authorized the largest items are new bridges over the Mississippi and Canadian rivers, a new general office at Topeka, and completion of automatic train control between Chicago and Fort Madison. In new work we shall put in 372½ miles of 110-pound rail and 159½ miles of 90-pound rail; 98.9 miles of automatic block signals, and we may build as much as 158 miles of new lines. Our yards will be enlarged at Chilli-cothe, Ill.; Shopton, Iowa; Chanute, Wichita, Arkansas City and Wellington, Kan.; Belen, N. M.; Bellville Yard, Texas, and Bakersfield, Cal. Our new equipment will consist of 1000 box cars, 500 gondolas and 500 refrigerator cars, with some other equipment not yet determined."

President L. W. Baldwin of the Missouri Pacific System says, with reference to his recently published statement concerning the acquisition of the New Orleans, Texas & Mexico Railroad, or Gulf Coast Lines, and the International Great Northern Railroad, besides the contracts for new cars and engines:

"You will note that our purchases of new equipment since last September 1 amount to approximately \$23,000,000. In addition to this new equipment, some of which is still on order, our improvement program for 1925 is arranged approximately as follows: Rebuilding freight and work cars, \$3,900,000; improvements to existing equipment, \$398,000; additional second main track between St. Louis and Jefferson City, Mo., \$2,000,000; application of new and repair rail and other track material, \$1,100,000; yard tracks, sidings, etc., \$1,900,000; shop machinery and tools, \$400,000; signals and interlockers, \$722,000; all other items, \$3,192,000; total \$13,612,000." Including the new equipment purchases of \$23,100,000 referred to by President Baldwin, this makes an aggregate of more

than \$36,700,000 which is being spent, and will be expended, by the company this year.

President C. H. Markham of the Illinois Central Railroad outlines expenditures of more than \$66,000,000 as follows:

"Our 1925 budget includes the following major expenditures: 2000 forty-ton composite box cars, \$4,460,000; 4000 fifty-ton composite gondola cars, \$8,112,000; 200 steel under-frame stock cars, \$401,000; 200 express refrigerator cars, \$917,600; 25 Mountain type locomotives, \$1,691,375; 3 steel parlor cars, \$114,000; 30 steel coaches, \$786,750; 8 steel compartment coaches, \$220,800; 6 steel chair cars, \$170,604; 9 steel baggage cars, \$170,001; 10 steel baggage-mail cars, \$221,740; 215 steel suburban cars equipped for operation by electricity, \$8,250,000; total, \$25,515,870.

"Construction of a cut-off connecting with the present line at Fulton, Ky., and at Edgewood, Ill., reducing the distance between these two points 22 miles and increasing the capacity of the plant to provide for the growth of traffic, estimated to cost approximately \$20,000,000. Construction of new shop facilities at Paducah, Ky., to provide a capacity sufficient to handle all repair work in that territory, estimated to cost \$6,000,000. New yard facilities at Markham Yard, Chicago terminal, estimated to cost \$5,000,000. Approximate expenditure of \$10,000,000 for grade separation, new bridges, shop machinery, extension of yard and side tracks, and improvement work of general character to insure handling of increased business efficiently and economically."

These several items make an aggregate of \$66,515,870 to be spent by the Illinois Central Railroad.

President W. L. Mapother of the Louisville & Nashville Railroad gives an indicated probable expenditure of at least \$24,000,000 this year, saying:

"This company is quite cognizant of the necessity for improving and enlarging its transportation plant to meet the current and prospective demands, particularly the rather optimistic outlook for the immediate future, and it has definitely undertaken to provide improvement work which will involve a heavy outlay of money during the year 1925. During the year 1924 this company prosecuted expenditures aggregating a total of practically \$29,000,000 for new improvements. So far in 1925 it has definitely appropriated a total of approximately \$20,000,000, which includes the unexpended balance carried over from 1924 in connection with the construction of 95 miles of double-track work costing nearly \$10,000,000, the rebuilding of numerous bridges costing approximately \$6,000,000, the installation of automatic signals and automatic train control involving an expense of over \$1,000,000, and the acquisition of a large amount of additional locomotive power and freight and passenger equipment. This figure also includes authorizations recently granted for the construction of certain double-track work costing nearly \$3,400,000, the purchase of new rail costing over \$2,000,000, and the acquisition of 25 locomotives, 2000 freight cars and 22 passenger cars which will require an expenditure of about \$5,200,000.

"This definite assumption of obligations for the year 1925, of course, represents the work actually under way as of the present date (January 30), and they will be very substantially augmented by the authorization of the necessary additional improvements that will be developed as the year progresses, so that the expenditures for 1925 will in all probability be very greatly in excess of the \$24,000,000 indicated. We have now under active contemplation the question of certain

additional improvements in the way of new lines, new bridges, etc., but status of these proposed expenditures is not now sufficiently definite to enable us to indicate their probable magnitude.

"It might not be amiss to state that the Louisville & Nashville has long maintained a uniform policy of spending the maximum amount of its available funds for the improvement of its service to the public, and it will probably be of interest to state that since the end of Federal control, or within the past five years, it has expended or appropriated for improvement work a total of practically \$123,000,000, which represents about 38 per cent of the total amount of money invested during the first 70 years of its existence."

President J. E. Gorman of the Rock Island System says that the total expenditures planned for improvements and additions contemplated on the system for 1925 amount to \$20,362,801, of which \$9,542,352 is for equipment and \$10,820,449 for roadway and structures. The following major items are included in the foregoing: Extensions and new lines, 2 approximately 30 miles long, the estimated cost being \$901,000; 1 section of second main track 18 miles long, at an estimated cost of \$1,188,000; 1 freight-classification yard, estimated cost, \$15,000; a new passenger station, \$50,000; a new freight station, \$175,000; new shop facilities or additions to present facilities, \$158,000; new and improved shop tools and other shop equipment, \$275,000; 20 locomotives, \$1,200,000; 1600 freight cars, \$3,660,000; 7 passenger cars, \$177,000; 2 derricks, \$88,000; track elevation, \$300,000; elimination of grade crossings, \$50,000; water-treating facilities, \$249,000. All of the foregoing is in addition to work carried over from the previous year, amounting to about \$400,000, the most important units being a bridge at De Valls Bluff, Ark., \$240,000, and the Shawnee shops and facilities, \$160,000.

President J. R. Kenly of the Atlantic Coast Line System, while not stating in dollars and cents its budget total for 1925, writes:

"We are working on the construction of our double track between Richmond and Jacksonville, and expect to have it completed by the end of this year. We now have in operation between Richmond and Jacksonville 475 miles of our main-line second track. The unfinished sections are under construction and should be finished early in the fall.

"We have purchased for fall delivery 20 Pacific type locomotives and 15 Santa Fe type locomotives, the latter for use on our Montgomery district.

"Our roadway, track and appurtenances are in good condition, and we will have for our fall business ample locomotives and freight and passenger car equipment in good order."

The distance from Richmond to Jacksonville on the Atlantic Coast Line is 680 miles, and the latest published map of the double tracking work shows continuous double track from Richmond to a point south of Florence, S. C., over 300 miles. Other sections on which double track has been built are between Lane's and Charleston, S. C.; Yemassee, S. C., and Savannah and Jesup, Ga.; and Folkston, Ga., and Jacksonville, Fla. There remain to be completed and connected up this year about 200 miles of new second track. Therefore, before next winter's Florida season opens up the Coast Line will be double tracked all the way through to Jacksonville.

President S. Davies Warfield of the Seaboard Air Line Railway System said that a budget of expenditures for this year had not been made up, and he could not, therefore, say how much would be spent for equipment, additions, betterments, etc. Notwithstanding this positive statement, it is assured that the Seaboard will continue its policy of expansion and progression that was emphasized last year by the phenomenal rapidity of construction of its 200-mile extension to West Palm Beach and its liberal enlargement of train service to accommodate the tremendous increase of travel

to and from Florida. Work along similar lines of railroad activity will of necessity be pursued, and steps will also be taken toward building the proposed extension from Brooksville to Inverness, Fla., about 20 miles, to give the west coast of Florida a second freight line which will later also be a passenger line. Construction of this depends to a considerable degree upon whether a local spirit of co-operation is manifested.

President L. A. Downs of the Central of Georgia Railway says that its budget for additions and betterments during 1925 includes items approximating \$6,500,000. In addition to this equipment, purchases amount to about \$2,250,000, making a grand total not far short of \$9,000,000. The program includes the continuation of work begun in 1924 on grade and line revision in the Birmingham district, the total amount of expenditure involved in this being \$4,525,000, about 40 per cent of the work being done last year; new roundhouse and minor mechanical facilities at Savannah, \$150,000; mechanical facilities, rearrangement and additional yard facilities at Albany, Ga., \$300,000; concrete mechanical coaling station at Millen, Ga., \$50,000; concrete mechanical coaling station at Union Springs, Ala., \$30,000; automatic block signals, \$33,000; additional telephone dispatching lines, \$162,000; improved shops, tools and machinery, \$100,000; improvements in bridges, trestles and culverts, \$213,000; improvements of miscellaneous character, such as new yard and passing tracks, heavy rail, tie plates, water stations, buildings, etc., \$645,000. New equipment to be bought includes 10 Mikado type freight locomotives, \$499,600; 5 Mountain type passenger locomotives, \$300,000; 6 passenger train cars, \$183,038; 500 double-end ventilated box cars, \$1,099,218; 100 flat cars, \$148,694; 10 caboose cars, \$20,500.

President A. C. Needles of the Norfolk & Western Railway says:

"We now have on order 4000 57½-ton gondola coal cars and 1000 box cars, and arrangements have just been completed for the rebuilding of 1583 of our older steel coal cars. Construction is now under way on 20 miles of second track on our Big Sandy line between Naugatuck and Kenova, W. Va. Along with these major items we have on our program of expenditures for 1925 the extension of two of our freight yards, the lengthening of a number of passing sidings to accommodate longer trains, and additions to shop facilities and equipment, which will bring our total expenditures for 1925 to approximately \$20,000,000.

"During 1924 we expended more than \$33,000,000 for additions, improvements and equipment, including 6000 70-ton hopper coal cars, automatic signals and train control between Shenandoah and Hagerstown, a distance of 107 miles; the rebuilding of several thousand of our older steel coal cars and 15 miles of second track."

President W. R. Cole of the Nashville, Chattanooga & St. Louis Railway writes:

"The improvement program of this railway for the year 1925 is represented by a budget of \$3,325,000, of which \$2,450,000 represents additions and betterments and \$875,000 represents operating charges in connection with the addition and betterment expenditures. Of the expenditures for additions and betterments about \$800,000 is a carry-over from the year 1924, divided as between roadway and equipment as follows: Roadway, \$635,000; equipment, \$165,000. The new work undertaken for 1925 is estimated at \$1,650,000, chargeable to capital account, and about \$450,000 to operating expenses. These improvements will be embraced under the following headings: Additions and betterments: Shops and shop machinery, \$117,000; operating expenses, \$40,000; improvements to depots and miscellaneous structures, \$69,000; operating expenses, \$30,000; automatic signals, telephone lines, heavier rail in main track, extension of passing tracks, etc., \$885,000;

operating expenses, \$380,000; strengthening bridges and trestles, \$155,960; equipment, \$423,040. The expenditures of \$423,040 for equipment includes 5 Mountain type passenger locomotives and 2 steel dining cars.

"While these improvements do not represent primarily an enlargement of facilities, they will afford a more efficient operation and, consequently, add to our ability to handle more satisfactorily an increased traffic."

President C. E. Schaff of the Missouri-Kansas-Texas System writes:

"The only new equipment we have on order is ten switching locomotives having 60,000 pounds tractive effort each. The following is a list of the principal items included in our improvement budget for the year, cost chargeable to capital account: Rebuild 300 furniture cars and 500 box cars, and other improvements to freight train cars, \$900,000; locomotive improvements, \$200,000; passenger-train car improvements, \$120,000; relaying 115 miles of track with heavier rail, application of tie plates, ballasting, etc., \$1,000,000; bridge program, which includes the replacing of wooden trestles with concrete and strengthening bridges at numerous points, \$500,000; new passing tracks, extension of existing passing tracks, and construction of new yard and other tracks, aggregating approximately 10 miles, \$250,000.

"We have several special improvement projects under contemplation, but it has not been definitely decided whether or not the work will be undertaken during the current year."

President C. W. Huntington of the Virginian Railway sends the following statement: "1925 expenditures planned: Equipment, \$126,300; roadway and structures, \$1,425,550—\$1,551,850. Consisting of the following major items: Freight classification yard, \$100,000; shop facilities, \$72,000; shop tools and equipment, \$60,100; 22 miles signaling, \$122,000; caboose cars, \$12,000; baggage and mail cars, \$85,500; bridges, \$240,000; enlarging and lining tunnels, \$210,000; fuel stations, \$65,000; heavier rail, \$227,850.

"The above work is in addition to work carried over from 1924, amounting to approximately \$10,728,000, the more important units of which are: Second main track, Clark's Gap to Matoaka, 5.14 miles; switching lead east of Elmore, W. Va., electrification—Roanoke to Mullens—134 miles." All of the latter has been previously described in the MANUFACTURERS RECORD.

Lincoln Green, assistant to president, Southern Railway System, says:

"During the year 1924 the Southern Railway System began a two-year program for improving the efficiency of its lines as a transportation machine in line with the policy which its management has followed consistently since the organization of the Southern Railway Company in 1894.

"Major improvements started by the Southern during 1924 were principally in the form of modern shop facilities for the repair of locomotives and cars, the provision of larger classification yards at important junction points and the purchase of additional equipment. A new locomotive and car-repair shop has been completed and placed in service at Birmingham, Ala.; a new car shop at Spartanburg, S. C.; a new locomotive shop is under way at Atlanta, Ga., and additions have been made to the shop facilities at Somerset, Ky., and Princeton, Ind. At Knoxville, Tenn., a large classification yard and engine terminal are being constructed; at Asheville, N. C., additional yard tracks have been laid and a new roundhouse is being built; a large modern roundhouse has been built at Spencer, N. C.

"New equipment, costing approximately \$20,000,000, and consisting of 9000 freight cars, 91 passenger train cars—including 11 modern dining cars—30 freight locomotives, 20 passenger locomotives and 20 heavy switching locomotives,

was purchased by the Southern during 1924. More than half has been received and placed in service.

"Electric automatic signals of a new and improved type have been placed in service on the line between Atlanta, Ga., and Birmingham, Ala., and telephone-dispatching circuits have been installed on this line and on the line from Salisbury, N. C., via Asheville to Knoxville, Tenn. A cut-off line 17 miles long is being constructed from Bulls Gap to Leadville, Tenn., to be used primarily for coal moving from the southwestern Virginia fields through Asheville to Carolina territory and the Southeast.

"New passing tracks have been built and existing passing tracks extended at a number of points on different divisions. During the year the Southern has continued its program for laying its double-track line with 100-pound rail, and it has recently purchased 50,000 tons of rail, mostly of 100-pound section, for delivery during the first six months of 1925.

"While carrying out this extensive program of improvement through the provision of new and enlarged facilities, the Southern has kept its maintenance, both of equipment and roadway, up to a high standard, and the physical condition of its entire plant is now better than at any other time in its history and its capacity for service is larger.

"In order to provide the best of service for moving the products of Southern cotton mills to market, the Southern about a year ago inaugurated the plan of running daily fast freight trains—handling only textiles—from Spencer, N. C., to Pinners Point, Va.; Potomac Yards, Va., and Oakdale, Tenn. The Potomac Yards section handles freight moving all-rail to Eastern destinations; the Pinners Point section handles textiles moving rail and water through Norfolk to Baltimore, Philadelphia, New York, Providence and Boston, while the Oakdale section carries cars for Louisville, Cincinnati and St. Louis and points beyond. A connecting train is run from Hayne Transfer (Spartanburg, S. C.) to Asheville, handling freight for the West, including 25 daily package cars for destinations on and beyond the Ohio River. These trains are run through to destinations without switching at intermediate terminals, no short-haul freight being handled on them.

"To encourage the movement of export and import freight through the seven South Atlantic and Gulf ports which it serves—Norfolk, Charleston, Savannah, Brunswick, Jacksonville, Mobile and New Orleans—the Southern maintains a foreign freight department which is constantly striving to increase the volume of foreign trade through Southern ports, both by solicitation and by pointing out to business concerns in the South favorable opportunities for foreign trade, particularly with Latin-American countries."

H. N. Rodenbaugh, general manager, Florida East Coast Railway, not stating their cost, says that a number of important projects have been authorized which will materially aid in the moving of the very heavy traffic, both freight and passenger, that now flows to the east coast of Florida over its tracks. "Probably the most interesting feature to the general public," he writes, "is the construction of additional second main-line tracks. It contemplates the construction before January 1 next of not less than 128 miles of roadbed and track. At the present time there is under construction about 68 miles of additional main track which, added to the 23 miles which were constructed during 1924 and which have been in operation for several months, means that by January 1 next it is hoped to have in operation about 219 miles of double-tracked main line. This will provide an incalculable amount of relief in the handling of traffic and will greatly increase the capacity of the railway to take care of the business, and will be of the greatest benefit in making more punctual the operation of passenger trains.

"Another feature authorized is that automatic block signals

will be placed in operation before the end of the present year on the most northerly stretch of double track—that between the Jacksonville terminal station and Bunnell. These automatic block signals will be applied to the remaining portions of the second track as rapidly as possible until all of the main line between Jacksonville and Miami is so equipped. The work of starting on a large scale the construction of new freight terminals at Bowden, near South Jacksonville, and at Hialeah, near Miami, will be pushed vigorously, and the construction of a number of long freight-receiving tracks at the Fort Pierce freight terminal was also authorized. Included in the authorizations was the purchase of 15 heavy road locomotives, 6 heavy switching locomotives, 15 steel day coaches, 15 steel baggage cars and 2 steel dining cars."

Appropriations were also made for a third office building at Saint Augustine and for the Miller shops on the site immediately north of that city. Additional improvements will be made next year, including second track on to Miami.

R. E. Kelly, representative of the executive department of the Southern Pacific Company, says:

"The year 1925 sees more new railroad construction on hand by the Southern Pacific Company. The new lines under construction include the building of 108 miles of new line in Oregon to form an alternate route between San Francisco and Portland, the construction of more than 100 miles of line in Mexico to connect the present lines down the west coast with the National Railways of Mexico to form a new route to Mexico City, and the starting of construction of 172 miles of new railroad in Arizona, which, with the El Paso & Southwestern properties recently acquired by the company, will form a second line for the company through Arizona and New Mexico. The work in Mexico and the work in Oregon were started in 1923. Work in Arizona started in December, 1924. The entire cost of the construction in Mexico is estimated at about \$11,000,000. The Natron cut-off in Oregon involves an expenditure of over \$15,000,000, and the work in Arizona will also cost about \$15,000,000. This work is to be completed within two years.

"The Oregon line over the Cascade range via Klamath Falls will run from Kirk to Oakridge. About 43 miles of the line have been completed and on the remaining 65 miles grading work is nearly completed. This route will be at easier grade than the present line over the Siskiyou, and will also open up a vast virgin section of Oregon.

"Important work during 1924 included double track over the Sierra Nevada on the route between San Francisco and Ogden, which called for the building of more than 52 miles of second track, and there now remains but 22 miles of this track to complete, which includes the boring of eight tunnels, one under the summit being 10,322 feet long. It is expected that this work will be completed next August in time for the peak movement of traffic. It involves the expenditure of millions of dollars, but with its completion and with the joint use of Southern Pacific and Western Pacific tracks between Alazon, near Wells, and Weso, near Winnemucca, Nev., leaves but 218 miles to complete double track for the entire distance between San Francisco and Ogden.

"The Southern Pacific and Western Pacific railroads on August 1 last began the use of each other's lines for double-track service between Alazon and Weso, 183 miles, which arrangement enables the Southern Pacific to move the peak load of traffic with greater expedition than heretofore.

"Many improvements of a minor or more routine nature were carried out during the year and are being continued during 1925. This includes extensive maintenance work in renewing rails and roadbed, reballasting with crushed rock to make a dustless roadbed, and the placing of many new locomotives and cars in operation.

"A large amount of equipment is being ordered, both loco-

motives and cars. Of special interest is the recent order for 16 Southern Pacific type locomotives. They will be the most powerful and economical non-articulated or single-unit railroad engines yet designed. They will handle heavy trains over mountain sections in the West. An outstanding feature of the new Southern Pacific, or 4-10-2, type of locomotive is a third cylinder placed inside the main frames slightly above and between the two outside cylinders. A large number of other locomotives and passenger and freight train cars have also been ordered.

"Other improvements contemplated during the year include additions to signal system, new shop facilities, new freight classification yards, reconstruction of old yards, etc."

President J. A. Edson of the Kansas City Southern Railway says that important work contemplated on its lines during 1925 includes expenditures of more than \$900,000 for rail renewals, \$343,000 on bridges, buildings, trestles, culverts, etc., besides some other buildings, miscellaneous work, industrial tracks, ballasting, purchases of tie plates, etc., making a total of nearly \$1,500,000 now in sight for these purposes during the current year. During 1924 the company added 500 box cars to its equipment at a cost of \$1,250,000, and also placed an order for a dynamometer car to cost \$63,500 which is to be delivered this year. No other purchases of equipment are contemplated except a scale-testing car to cost \$7500. Considerable work was done in 1924 in the way of enlargement and improvement of roundhouses, tracks, bridges, etc.

To Increase Capacity of Florida Power Company and Build Transmission Line.

Confirming their purchase of the Florida Power Co. of Ocala, Fla., A. E. Fitkin & Co., New York, advise the MANUFACTURERS RECORD that they plan to increase capacity one-third and will connect with the Pinellas County Power Co. at St. Petersburg with a 60,000-volt transmission line, thus utilizing the steam power plant at St. Petersburg for reserve purposes. It is the expressed purpose of the new owners to fully develop the hydro-electric possibilities. The Florida Power Co. will be managed by the General Engineering & Management Corporation of New York. It supplies power to Ocala, Dunellon, Brooksville, Inverness and other communities.

Plan Memorial University in West Virginia.

The Prisoners' Relief Society, Washington, D. C., E. E. Dudding, president, is considering the purchase of 2000 acres of land in West Virginia for the establishment of an educational institution for former prisoners. Mr. Dudding advises the MANUFACTURERS RECORD that two properties are suitable—at Red Sulphur Springs and at Pence Springs. Both properties have buildings sufficient to start the school, additional buildings to be erected by students. Plans for the structures will be drawn by the institution, which will also manufacture its own brick. Manufacturers, it is said, will donate much of the building material required.

\$500,000 Arcade Building for Ashland.

Ashland, Ky.—Property has been purchased in this city adjoining the new building of the Ashland National Bank, on which it is planned to erect a \$500,000 arcade building. Promoters of the project include Mrs. Alice Mayo Fetter, John C. C. Mayo, W. H. Dawkins and Alexander Cameron. The structure will be four stories and basement, of steel and concrete. It will contain 62 storerooms on the first floor and mezzanine and about 14,000 square feet of space on the third and fourth floors for other purposes. Electric elevators will be installed. Albert Klein of Ashland is the architect.

The Object of the Tennessee River Survey.

By MAJOR HAROLD C. FISKE, Corps of Engineers, District Engineer, Chattanooga, Tenn.

[The survey of the Tennessee River now under way with a view to studying the potentialities of the entire river for water power and transportation is described in the following article by Major Fiske, who has charge of this work. Major Fiske has made an extremely interesting presentation of the whole subject, one which will be of vital importance to the vast territory bordering the Tennessee River and its tributaries. He shows how transportation can be improved, and in doing so the extent of hydro-electric power that can be developed.

One remarkable statement which will command immediate attention is that, with the canalized river brought about through these suggested improvements by the National Government, shipments can be made by an all-water route to Pittsburgh, Chicago, Kansas City and New Orleans, and from New Orleans to the ports of the world; and that Knoxville, at the head of the Tennessee, is by this water route 300 miles nearer Chicago and Kansas City and New Orleans than is Pittsburgh, at the head of the Ohio River.

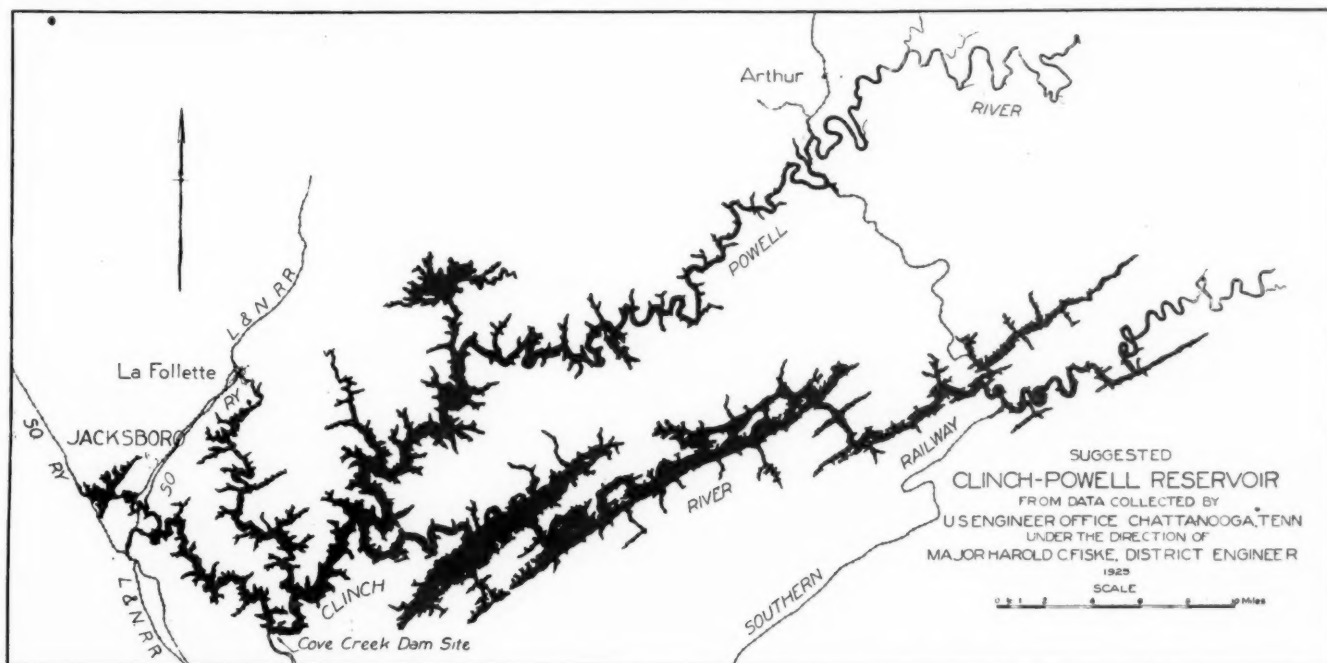
Major Fiske opens up a vista for potentialities for the utilization of the river and the development of the vast resources tributary to it that is almost dazzling in its possibilities. The achievement of these things would add billions of dollars to the wealth of the whole country.—Editor Manufacturers Record.]

The conservation of natural resources by the Government has been for a quarter of a century a matter of generally recognized value. Of all such resources which should be conserved there are two of special importance in that these, contrary to the general rule, can be conserved only as they are used. Each day offers its opportunity, but each opportunity that is neglected goes with that day, never to return. These resources are found in our streams, where, properly controlled, the flowing water may be made to generate electric power and in many instances to serve as a route for the cheap transportation of almost unlimited quantities of freight.

The power-navigation survey of the Tennessee River and its tributaries, which was, to a limited extent, authorized by Congress, has been under way on an extensive scale for nearly two years, and during this time an immense amount of valu-

expenditure of the greater part of the \$200,000 which Congress authorized for this work.

The Wilson Dam at Muscle Shoals is an indispensable element in the proper improvement of the Tennessee River for navigation and its unusual value in connection with the development of water-power is well known. Great as is this power value, it is defective in that during flood stages the quantity of water passing that place is forty times or more greater than the flow during low-water seasons. Intermittent power that comes and goes with the rise and fall of the river is of little or no importance to the consumer, and, measured by the standards customary in this business, the power value of the developments possible at Muscle Shoals is very closely proportional to the amount of power that can be delivered at times of least flow. Conditions can be materially improved by supplementing the water-power with steam power, but this adds to the cost, and the thing most to



able information has been obtained and filed for study and use. The survey will conclude with a report which will contain as much of this information as can be kept within manageable limits, together with a suitable analysis of these data and such recommendations as may be appropriate. At present all the data that can be assembled with the funds available before 1925 have been collected, and there remains the task of studying these facts and preparing the report. Some months must be devoted to these studies, but it is hoped that the forthcoming report will be ready for Congress well in advance of its next session. In the meantime it may interest some to know in a general way what has been accomplished by the

be desired is to get from the hydro plant the largest possible amount of power at low-water seasons. This naturally suggested the storing of the surplus flow at flood seasons and using it to increase the flow at seasons of deficiency.

Presumably suitable storage basins could be found on the various large tributaries of the Tennessee River; all such basins would, however, be 300 miles or more distant from Muscle Shoals, and no one knew definitely whether the amount of such storage actually available would be enough to secure the results sought. On the other hand, these storage reservoirs would have to be formed by building high dams which would create high heads, and water as it was drawn

from the reservoir for use at Muscle Shoals could and should also generate power at these storage sites. After leaving the tributaries, water from these reservoirs would have to flow 250 miles or more in the Tennessee River before reaching Muscle Shoals, and this again suggested that if additional power-navigation dams were built above that section it would be possible both to secure additional power and at the same time to secure an improvement for navigation of unusual importance. The question was, Would it be profitable to build all these storage and power-navigation dams?

These conditions and queries indicate both the reason for making the present power-navigation survey of the Tennessee basin and the line of procedure to be followed in executing the work. First, it is necessary to know where water can be stored and the amount that can be stored at each of these places. Next, it is necessary to know the quantity of water flowing in each of the many tributaries and whether this quantity is too large or too small for the storage available on that stream. Third, what power-navigation dams can, in fact, be seriously considered on the Tennessee and perhaps its major tributaries. Fourth, how much power can actually be obtained from plants at the reservoirs, the dams above Muscle Shoals, those at Muscle Shoals and perhaps one or more below Muscle Shoals. The greater the available power the greater the expenditure justifiable to obtain it, and the less, presumably, need be spent to develop adequate navigation. Fifth, how much will all these things cost and how will outgo compare with income. These are the first questions to arise, but following them, and of equal importance, comes a long additional list: What will be the flowage damages; what are the geological conditions; who will buy the power; how about interconnection, a super-power system; steam auxiliaries; the commercial use of the available navigation, and so on.

From the outset of the survey, data relating to the flow and storage of water have been sought consistently. All data pertaining to stream flow have been secured through the co-operative efforts of the Engineer Department Survey personnel, the Water Resources Branch of the United States Geological Survey and the Geological Survey of the state of Tennessee, and in this way the volume of information obtained has been materially increased beyond what it would have otherwise been. Stream flow records begin, in general, with the daily record of gauge height. These are obtained by daily readings made by some person living near the gauge. Every effort is made to secure a thoroughly dependable agent, but often the best obtainable is none too reliable, and funds are never sufficient to station a special agent on a stream solely to read a gauge. At a few places in the Tennessee basin records of gauge heights extended back for fifty years, for the most part ten or twenty-year records only were available, while at some places where records were greatly to be desired none had ever been kept and gauges had to be installed promptly.

From these stream-flow records it is possible to obtain a very acceptable estimate of the flowage conditions at any adjacent dam site that need be studied. This work has now been under way for four years and a half, and as a result our files contain over one million records of gauge height and of discharge, either measured directly or computed for a dam site from the nearest station of record. The collection and filing of these records is not all that is required. All must be checked for accuracy and consistency. That this is essential is well illustrated by two experiences in this connection.

Upon checking one of the oldest and most important stations it was found that the gauge reading there remained constant when at the two stations on the same stream immediately above and below the readings would rise or fall together. Or while these adjacent gauges remained constant this intermediate gauge would rise or fall all by itself. An investigation was clearly in order, and a moderate

amount of detective work finally solved the mystery. The gauge reader lived a mile or so from the gauge and, after having read the gauge faithfully every day for some years, he decided that he could tell what it read without taking a long and tedious walk just to look at it. Thereafter when weather conditions seemed to him to justify he would not go near the gauge for days or weeks at a time, sending in his daily report of readings made up of figures which most appealed to his sense of the general fitness of things. The tragedy was that he had been doing this for ten years before he was caught. In this case such remedies as are possible have been applied and at least no erroneous records will be used in future computations based on this gauge. The gauge reader lost his job.

At another gauge of equal importance the relation between it and the neighboring gauges remained regular for several years, then this relation changed abruptly and on a new system was regular for a time, then there was a third change and a fourth. No natural phenomena could explain this puzzle, and in this case the investigations soon took a historical turn. The gauge was first located on a bridge pier. This bridge was rebuilt, and during this time the gauge was moved to another bridge and in being reset an error was introduced in the determination of its elevation with reference to the water surface. In addition, the cross-section of the river at the new site was different from that at the old one, and discharge curves for the first place gave incorrect results when applied to the readings at the second. From the second bridge the gauge was later moved to a third, thus introducing a new set of similar errors, and finally it was moved back to the first bridge, with still another set of errors. In the meantime it had been found necessary to repaint the gauge, and a local painter was employed. Seemingly the artistic side of the job had a greater appeal to him than did the utilitarian aspect, and instead of dividing each foot into ten-tenths he put in eleven or twelve or more as, in his opinion, would give the best general effect. Of course, the gauge reader should have noticed the change and had the work done correctly, but it happened that he was a liberal-minded man with a soul above quibbling over such minor matters, and if the painter wanted a dozen or so tenths in a foot he was not the man to object. In fact, a few extra tenths in a foot gave greater play to his imagination, which before had been somewhat restricted by the original and more conservative arrangement. About \$2000 had to be spent in locating troubles and correcting them, but now the records of this gauge are fully as reliable as those of the others which have had less eventful careers. It is believed that the accuracy and completeness of the stream-flow records of the Tennessee basin will compare favorably with those in any other section of the country.

In order to determine the location, capacity, etc., of storage reservoirs and power or power-navigation dams it is necessary to have at hand accurate topographical maps of all the sites which may be given serious consideration. For the study of navigation and its relation to the industrial situation there is needed certain information which could be omitted if power alone were under consideration. For instance, the value of a navigable river is affected by the size and location of neighboring cities and towns, of the co-ordinate freight routes highways and and railroads, the adaptability of the adjacent terrain to the location of factory sites along the river and on or near these co-ordinate routes, questions of overflow, flood damage, drainage, etc. The scenic effect of the reservoirs and the improved river has unexpectedly developed a marked potential value. All these things call for maps showing topographic detail with a completeness and accuracy seldom considered necessary in previous surveys of this general nature.

When the survey was begun maps of the region to be

studied were available from several sources. Those prepared by the United States Geological Survey had a scale of two miles to the inch and were invaluable for general reconnaissance purposes, but were wholly inadequate as regards the completeness and accuracy of topographic detail. Maps from the Engineer Department gave complete data concerning the most important rivers for the narrow strip which lies between the tops of banks, but had practically no information beyond that strip. Maps from other sources were available, but all of these were found to be deficient in either completeness or accuracy, and frequently in both respects. To meet the needs of this survey it was, therefore, necessary to prepare and put into effect an extensive map-making program.

Accurate mapping of topographical detail is a slow and costly process, and with a view of expediting results and to keeping down costs it was decided in this work to make use of aerial photographs. Such photographs show practically all the topographic detail desired except where difference of elevation is concerned, and by getting this additional information through the customary methods of surveys on the ground very complete and accurate maps have been obtained. All the aerial work has been done by the Air Service, U. S. Army, which for this survey has taken over 7000 photographs from elevations above the ground varying from 12,500 to 15,000 feet. To these ground-surveys add necessary records of elevation and such measurements as are needed to keep the maps at the proper scale.

The scale of the new maps is about four inches to the mile, or eight times that of the United States Geological Survey sheets. This permits an area of forty square miles to be shown on a single sheet that is not too large to be handled easily, and at the same time permits the size and shape of individual buildings to be shown correctly from the information taken from the photograph. Generally speaking, these maps show the main river or a tributary and the adjacent country to a distance of two or three miles away from either bank. In these strips elevations are determined and recorded only to the maximum elevation of flood or stored water, but cultural detail, houses, roads, etc., are shown with perhaps unprecedented completeness and accuracy. If all the streams mapped in this way by this survey were only one continuous river, the results accomplished to date would make a map two feet wide and one hundred forty-four feet long. At the time that the use of aerial photographs was decided upon for this map work various Government agencies had done a good deal of experimental work along this line, but so far as is known this project was the first of any magnitude where full reliance was placed on this new method. It is believed that there were then no private interests in this country engaged in this form of map making. Now there are at least five different companies in this business. It would not be fair to insinuate that these companies have entered this field as the result of the activities of this office. On the other hand, it is believed that the success that has attended our efforts has been of material encouragement to them, and it is certain that some of our former employees who had received here all their training and experience in this method are now in the employ of these private interests.

Constant investigation has been under way on the actual and relative merits of numerous sites for reservoirs and dams, special large scale surveys have been made of eight important sites, various others have been examined on the ground, and much information has been collected bearing on flowage damages, geology, construction costs, the power market, selling prices, interconnection, etc. Such items, however, rank among the variables in the problem, and their influence in the final report will probably not be definitely known until the report itself begins to take final form. A hint on the importance and complexity of the entire study may be obtained from

the statement of a few facts bearing on the so-called "Cove Creek Reservoir," which received some attention last winter from the committees in Congress on Muscle Shoals.

The Cove Creek Reservoir is one that it has been suggested should be created in the basin of the Clinch River by building a dam some 200 feet in height just below the confluence of a minor tributary called Cove Creek. Such a dam would back water for a long distance up the Clinch River proper, up its major tributary, the Powell River, and up a number of minor tributaries or large creeks. Ever since the development of water-power began in the South it has been a matter of common knowledge, in a more or less vague way, that unusually large storage possibilities existed in the basin of this river, which is one of the major tributaries of the Tennessee and joins that river 300 miles above Muscle Shoals. In fact, these potentialities were among the strongest arguments in favor of making this general power-navigation survey.

The cut shown on the first page of this article shows the form and extent of the reservoir that would be created if a dam were built at the Cove Creek site 225 feet high. Although this illustration is of necessity on a very small scale, it is as accurate as such a scale permits, being a photostat reduction of the original four-inch to the mile sheets, where this area appears over one thousand times the size of the area of this cut. The area of such a reservoir as this would be nearly 53,000 acres, or 83 square miles, and a drawdown of 50 feet gives a volume of over 86,000,000,000 cubic feet. Applying this volume to the records of flow at Muscle Shoals, it is evident that, properly handled, it could be made to increase the average minimum flow there from about 10,000 cubic feet per second to 20,000 or more. This means that the low water or primary power available at Muscle Shoals would be doubled or better, and if the value of the power plants there is proportional to the primary power obtainable, then this Clinch River storage would double, or more than double, the power values at Muscle Shoals. This applies, of course, not only to the Wilson Dam, now nearing completion, but also to Dam No. 3 immediately above, the construction of which has been recommended to Congress.

The combined power heads at the Wilson Dam and No. 3 are about 140 feet. With this head a flow of 10,000 c. f. s. will generate about 125,000 horsepower and one of 20,000 c. f. s. about 250,000 horsepower. If the second 10,000 c. f. s. comes from the Cove Creek storage, it would generate about 200,000 horsepower in leaving that reservoir. The foot of the Cove Creek Dam would be 290 feet above the crest of Dam No. 3, Muscle Shoals, and the 10,000 c. f. s. from storage would have to fall that distance after leaving the reservoir before reaching No. 3. If power installations intervened suitable to utilize all this fall, this stored water would, in theory, develop about 260,000 horsepower in this interval. If suitable power installations intervened in the Tennessee River, they should be able to develop power not only from this water released from storage, but also from that which was flowing naturally in the river and which went to make up the 10,000 c. f. s. of natural flow at Muscle Shoals. The fall between the mouth of the Clinch and Dam No. 3 is about 170 feet, and if the average flow in this section were 8000 c. f. s., it would make possible the generation of an additional 120,000 horsepower. (With Cove Creek storage in effect on the Clinch, the natural flow in that stream below becomes small.) To summarize, if Cove Creek storage were created, and suitable power plans were installed between Cove Creek and Muscle Shoals under the above assumptions, the primary power available 24 hours of the day for the entire system would be:

Wilson Dam and No. 3, regulated flow (20,000 c. f. s.)	250,000 H.P.
Cove Creek power plant (10,000 c. f. s.)	200,000 "
Released water, Cove Creek to Dam 3 (10,000 c. f. s.)	260,000 "
Natural flow, below the Clinch and above No. 3 (8000 c. f. s.)	120,000 "
Total	830,000 "

Steam plants now in operation at Muscle Shoals and Hales

Bar on the Tennessee River have a combined capacity of 140,000 horsepower, so that only 30,000 horsepower additional steam would have to be installed to bring the grand total, steam and hydro, up to 1,000,000 horsepower 24-hour, primary power. The pools which would be formed by all these power-navigation dams would be sufficient for temporary storage and also to maintain depths required for navigation, so that if desired any or all of these plants could be shut down for 12 hours and then operated for 12 hours, thus making available nearly 2,000,000 primary horsepower on a 12-hour basis.

If all the 290-foot fall between Cove Creek and Muscle Shoals were utilized as power head by a series of dams, it would mean that the crest of each dam could not be lower than the foot of the next dam upstream. From the navigation standpoint this means that the series of pools would be uninterrupted, and only locks and their accessories need be provided at each dam amply to provide for navigation. The amount of money that can be economically invested in one or two million primary horsepower is so great as to hold out the hope that the cost of these locks would not be too large an item to be included in the power costs. If this should prove to be the case, it would be a most fortunate conclusion, in that by this means, and without cost to the Government, there would be secured the long-sought ideal improvement for navigation of the Tennessee River—complete canalization throughout its entire length from Muscle Shoals to its source. Completely canalized, the freight-carrying capacity of the river would be limited only by the size of its locks and could easily be made to accommodate millions of tons per annum. These are the apparent theoretical possibilities. On the survey rests the responsibility of determining to what extent they are also practicable.

This power-navigation survey does not overlook the fact that unlimited hydro-electric power and ideal navigation conditions are of value only as they are actually used, and to be used there must be a demand for power which can be met only by a large industrial expansion in this region. In the same way millions of tons of freight will be carried over the river only when there have been brought to its banks many industrial plants which receive raw material or ship finished products, or both, in large quantities by this route. A few facts are conspicuous in this connection. Geographically, the Tennessee River is near the center of population and industry of the United States. Direct rail connections are already established which radiate from this region like the spokes of a wheel. With a canalized river shipments by an all-water route can be made to Pittsburgh, Chicago, Kansas City and New Orleans, and from New Orleans to the ports of the world. Knoxville, at the head of the Tennessee, is by water 300 miles nearer Chicago, Kansas City and New Orleans than is Pittsburgh, at the head of the Ohio. Hundreds of millions of tons of coal and iron ore are available for shipment by water from the mines to blast or electric furnaces on the river or elsewhere. Some forty other minerals are found in the valley available for the electric furnace or electro-chemical processes or other uses. Climatic conditions are extreme neither in summer nor in winter. There is an unlimited number of factory sites immediately adjacent to river, rail and highway routes, and these may be found in large cities, small ones or in the open country where new communities may be started as may best fit the needs of the new industry. The beneficial effects of a proper industrial expansion here should be felt throughout the country.

These few facts are enough to give the outlines of a wonderful picture of a populous industrial area in a genial climate, thickly dotted with thriving towns and cities between which wind roads, railroads and a great river crowded with traffic. Such things exist elsewhere, but elsewhere they have grown up without direction largely by a happy coincidence of fortunate events. Here there is at least a chance dimly to foresee

the future and so to guide impending events that waste, loss and futile endeavor may largely disappear. This is the prize toward which the survey of the Tennessee River and its tributaries is striving, and should this effort meet with any measure of success there will be few other Governmental researches that have resulted so greatly to the good of the nation.

Paper Making in the South.

[From the Boston Transcript.]

Will the South ever become a dangerous rival of New England in the making of paper, as it has in the cotton industry? This interesting and important question is considered, among others equally pertinent, in the remarkable series of articles running in the MANUFACTURERS RECORD from the pen of Richard Woods Edmonds. The analysis of industrial conditions in the two sections by this writer is fair, well informed and illuminating upon many points which have remained untouched even in the seemingly exhaustive reports issued from various sources in New England which have sought to deal with the problems, some of them identical, involving the two sections.

Mr. Edmonds, after a thorough review of the situation, reaches the conclusion that the center of the nation's paper industry, measured by tonnage and probably by total value, eventually will lie in the South. But, he adds, it will be many years, if ever, before New England paper mills feel the effects of the change. One reason for the delay is to be found in the difference in the quality of the raw material used in the two sections. That in the North is spruce or spruce and rags, and while the same wood is used in the South the problem is to develop processes that will enable the South to make good paper from its woods. The competition now is intense, but it has affected the Lake states rather than New England, and, according to the trade, all that has saved many of the mills in those states has been the inferior quality of the Southern kraft, the intermediate raw material from which the paper is made. The difference is due largely to the formation of the cellulose fiber which forms the basis of all plant life. New England, because of the superior quality of her spruce, has little to fear from Southern competition in the paper industry, but in the Lake states executives are giving serious consideration to the idea of moving South.

One deterrent, which should easily be removed, is the archaic system of taxing forest lands, originating in the days when forests were an incumbrance, to be cleared off and burned and still continued. Reforestation naturally is discouraged by adverse state laws, of which this is one example, and some of the Northern concerns are calling upon the Southern states to awaken and realize the industrial possibilities of their own section, which remain undeveloped because of legal handicaps which should be removed.

In its discussion of the industrial problems of North and South and its intelligent comparison of the two sections, drawn without fear or favor, the RECORD is rendering a unique service to manufacture, and incidentally is teaching some lessons that both might absorb with profit—as, for example, the showing that the Southern paper mills are employing marketing methods which the North long ago abandoned as wasteful.

Houston to Have \$300,000 Fire Boat.

Houston, Texas.—Steps have been taken here recently to provide adequate fire protection for the port. Three large fire pumps located at strategic points already afford a supply of water to fight land fires, but to augment these and properly protect ships and industries a modern fire boat will be built from funds derived from a bond issue of \$300,000 voted last summer. Plans and specifications have been prepared by Cox & Stevens, naval architects, of New York, and construction bids will be received until April 30.

The boat will be of steel, with a length over all of 125.10 feet, beam of 27 feet and draft of 8.6 feet, of twin-screw type, electrically controlled and equipped with two Diesel engines of 500 horsepower each, pumps, generators, signaling devices and other modern equipment. B. C. Allin is director of the port.

American Chemical Society Discusses Discoveries and Problems.

In a broad, general program "to present and discuss the latest advances in the chemical science as made in America, and to discuss its present problems," as an official of the American Chemical Society expressed it, the sixty-ninth meeting of that organization opened in Baltimore on Monday of this week for a four-day session. The membership of approximately 15,000 was very largely represented and a most comprehensive schedule was prepared for the many individual groups.

Although necessarily technical, the various papers and the discussions thereon were designed to be of a constructive nature, and the discoveries, or other results of study, were stated in a way to be made practicable in industry for the benefit of mankind. In the symposium on corrosion, for instance, it was cited that corrosion of pipe in the petroleum fields actually threatens the loss of some of the oil pools, and that \$300,000,000 hardly would cover the annual loss through corrosion in the United States alone. So, too, the deliberations of the paint and varnish section were regarded as of practical value to the automobile industry and to other great manufacturing enterprises.

In a study of special corrosion problems in oil refining a paper by R. E. Wilson explained that in "fire and steam" distillation of crude oils most of the corrosion is caused by hydrolysis in one of the components in the salt which almost always is present, and methods of preventing, or minimizing, this corrosion were discussed.

An assertion that America's millions of cotton users have been definitely freed from foreign domination of fadeless dyes through the discoveries of two chemists employed in the color-grade laboratory of the United States Department of Agriculture was made in a report by R. Norris Shreve. Fadeless vat dyes, it is declared, are now being produced in the United States at prices below their cost in Germany. Savings aggregating millions of dollars to American cotton manufacturers have resulted from the development of cheaper intermediates for the vat dyes, and these are, it is said, actually being exported to Germany.

"The American manufacturers of vat dyes," said the report, "now have at their disposal cheap and pure products with which to build up the complete molecules characteristic of these colors, which give the brightest shades and the most permanent colors yet made.

"The rapidly fading colors of 1916 and 1917 and the waste entailed in replacement cost for clothes and draperies have given way to sun-fast, no-fade clothes and materials.

"This is possible," stated the report, "because of the vat dyes, and the American vat dyes are with us because of the development of cheap aluminum chloride and phthalic anhydride. For some time it was the boast of the Germans that they alone were capable of producing vat dyes, but this contention, like all such bombastic boasting, has been refuted. Indeed, American chemists have developed a unique and independent vat dye industry of their own, one which five years ago would have seemed impossible, and which now is incomprehensible to most European chemists who are not fully cognizant of two fundamental processes developed in America. Anthroquinone, the essential raw material for the whole group of fadeless vat dyes, is made by the synthetic process of H. D. Gibbs and C. Conover not only cheaply but in a very pure form from phthalic anhydride and aluminum chloride. The expensive materials here were the phthalic anhydride and the aluminum chloride. Now all the phthalic anhydride made in this country is produced by the method of these two Government chemists.

"In 1923 upwards of 2,300,000 pounds were produced in

this country and the average price was 29 cents a pound. At present quotations are as low as 16 cents a pound, and it is understood that this compound has been exported to Europe and to Germany itself, where it is in high demand because of its extreme purity and low price. The pre-war price for the German product was around 30 cents a pound, an amount which, in terms of present-time purchasing power, would be about 50 cents to 55 cents.

"Simplified and improved methods have also been the secret of the cheap and easy production of aluminum chloride, so that the price of this compound has fallen to 16 cents a pound."

Among the papers on dyes, William D. Appel described preliminary experiments which indicate that the light from the gas-filled tungsten incandescent lamp screened with a solution of copper sulphate very nearly duplicates the effect of sunlight on dyed fabrics and is better than other artificial sources in this respect. Also, he advocated the desirability of establishing trade standards for strength of dyes. In the compilation of the physical constants of dyestuff intermediates, J. F. T. Berliner and O. E. May said it had been found that, for many of these, vapor pressure determinations have never been made, and they added that "study of vapor pressures is of fundamental, practical and scientific importance, since from these many important properties, constitutional and otherwise, may be derived, among which are pressure, latent heat of vaporization, entropy, polarity, critical temperature, and so on."

A study of automobile finishing varnishes was described by W. T. Pearce, in which laboratory and exposure tests were made on a series of auto varnishes. These, he said, were applied over color and rubbing coats of widely varying elasticity, built upon steel panels and upon one coat of a baking japan. These panels were fastened to a rack, facing south, inclined at an angle of 45 degrees, and examined weekly till all the varnishes had failed. The laboratory examination included elasticity, viscosity, rate of drying, specific gravity, hot, cold and soap-water tests, gas and draft tests, non-volatile and acid value. The tabulated data, he added, are studied in order to ascertain the relationship of elasticity of color and rubbing coats to the durability of the finishing varnish and the relationship of elasticity of the finishing varnishes to their durability.

So through all the many divisions of the assembly a note of practicality and practicability was sounded, and the studies and discoveries of science were made applicable to industry as far as possible.

The divisions and sections of the meeting were: Agricultural and food chemistry; biological chemistry; cellulose chemistry; chemical education; dye chemistry; gas and fuel chemistry; history of chemistry; industrial and engineering chemistry; leather and gelatin chemistry; medicinal products chemistry; petroleum chemistry; organic chemistry; paint and varnish chemistry; physical and inorganic chemistry; rubber chemistry; sugar chemistry, and water, sewage and sanitation chemistry.

Following a council meeting on Monday afternoon and evening and a reception and dance, the gathering was welcomed on Tuesday by Dr. Neil E. Gordon, chairman of the Maryland section; Governor Ritchie of Maryland and Mayor Howard W. Jackson of Baltimore. Dr. James F. Norris, president of the American Chemical Society, expressed the appreciation of the guests.

In addition to the divisional meetings, most of which were held at Johns Hopkins University, there were public meetings at various theaters, and trips to the Naval Academy at Annapolis, to the Aberdeen Proving Grounds and other places of interest.

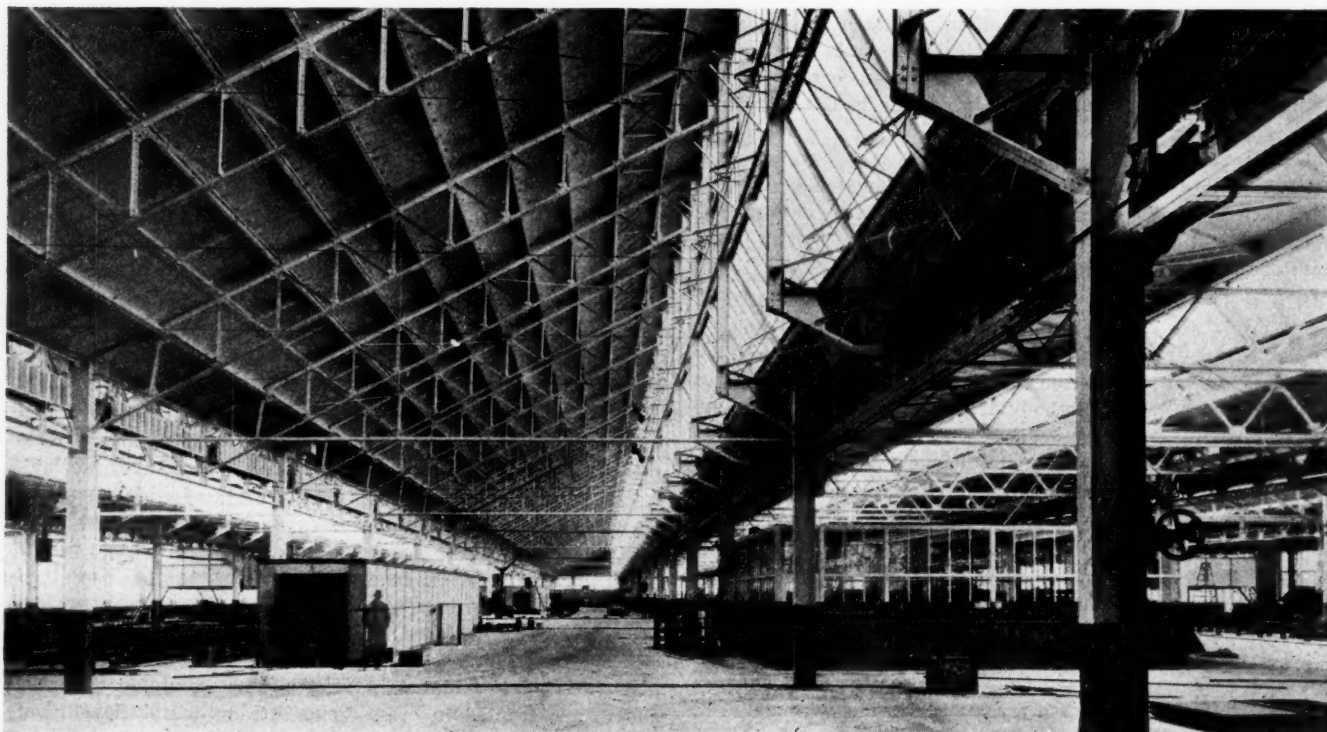
Ford Plants in Southern Cities.

The expansion program carried out by the Ford Motor Co. in the South during recent months reflects not only the company's own faith in the future of the automobile industry but also an optimistic outlook generally. New plants were erected at Memphis, Charlotte, Jacksonville, Dallas and Louisville; production capacity of the Kansas City plant was doubled; an addition was made to the Oklahoma City branch to permit the building of bodies, and a new branch was established and assembly plant constructed at Norfolk.

Early last year the company launched Henry Ford II and

story high and of a type affording an unusual amount of daylight, glass making up a large portion of the wall and roof areas. Assembly and body building operations occupy all of the building except the front, which houses the branch offices and showroom. A depressed railroad track runs into the building at the side opposite the final assembly line.

Cars consigned to the plant are made up in the railroad yard into trains of a certain prescribed order according to the parts with which each is loaded. When the train is run into the plant, each car will be found opposite the point on



THE FORD ASSEMBLY PLANT AT DALLAS.

This view gives an idea of the excellent lighting secured through the single-floor type of construction characteristic of all Ford branch plants.

the Benson Ford, giant motorship freighters, and acquired the steamers Oneida and Onondaga, and inaugurated its own water transportation on the Great Lakes. During the summer and fall months these ships were used in transporting iron ore and lumber, and the latter two have since been transferred to ocean service.

The branch plants in the South are all built on practically the same lines. The Louisville plant is 300 by 1000 feet, one

the assembly line where its particular lading, such as motors, axles, wheels or radiators, is needed.

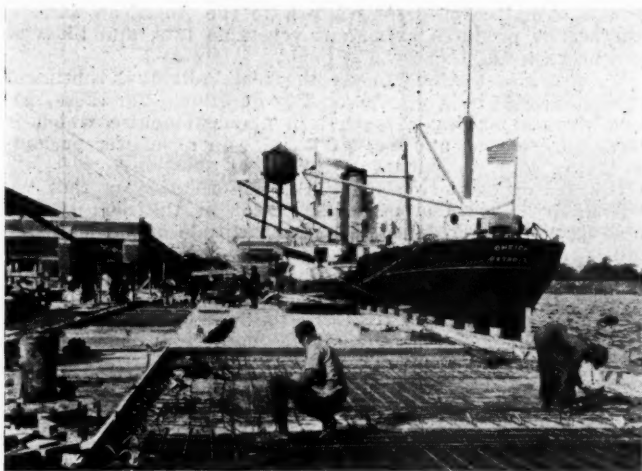
A light, airy, modern building houses the power plant, where steam operates turbo-generators, furnishing electrical energy for power and light.

Heat for the building and the drying ovens of the body department is furnished by exhaust steam from the turbines.

A separate oil building outside the plant contains tanks of



EXTERIOR VIEW OF DALLAS BRANCH PLANT—TYPICAL OF THE EXTERIORS OF ALL THE FORD BRANCHES.



FORD DOCK AT JACKSONVILLE.

The vessel is the "Onelda," one of the fleet engaged in carrying Ford parts to the Southern branches.

gasoline, motor and fuel oil and enamel. These fluids are pumped through pipe lines to faucet openings at points needed, thus eliminating the moving of tanks through the plant.

There is a modern first-aid room with all standard equipment in the plant, together with physicians' quarters, so as to afford prompt medical service for employees.

Fort Pierce Development of 27,000 Acres.

Additional information has been received by the MANUFACTURERS RECORD relative to plans of new interests which recently acquired a majority of stock of the East Coast Development Co. of Fort Myers, Fla. The Phelps-Hendrickson Co. of Chicago, sales agents for the property, advise that in the development of approximately 27,000 acres of land near Fort Pierce it is the purpose to build a townsite, boulevards, parks and golf courses. A hotel is contemplated.

A portion of the agricultural land has already been drained and a bond issue of \$500,000 sold to Caldwell, Moser & Willaman, Chicago, for more drainage work. Contract for this work has been awarded to the Canal Construction Co. of Melbourne, Fla., operations to begin by April 15 and to be completed within 20 months.

William G. Krieg, former city architect of Chicago, and associates will have charge of construction activities.

Work Soon on Greenville's \$2,000,000 Water-Works.

Greenville, S. C.—Actual construction on the dam and pipe line for Greenville's \$2,000,000 water-works development on the Saluda River is expected to begin soon. A trail has been cut around the 9000 acres embraced by the watershed in upper Greenville and Pickens counties, and other preliminary work has been completed. The watershed slopes into Table Rock Cove on the South Saluda River. A dam 120 feet high will be built at the mouth of this cove to form a reservoir estimated to hold 5,000,000,000 gallons of water.

A trunk line probably 30 inches in diameter will be laid from the dam to reservoirs already located on Paris Mountain, and from these it will be piped to the city from one 24-inch and two 12-inch pipes now in use. The 30-inch pipe line will be approximately 19 miles long, while the distance from the Paris Mountain reservoirs to the city standpipes is about 7¾ miles. The 30-inch line will have a carrying capacity of 10,000,000 gallons per day. J. L. Ludlow of Winston-Salem, N. C., is consulting engineer and W. C. Beacham is chairman of the water-works commission.

Alabama Gray Ores Can Be Successfully Concentrated for Blast Furnace Use, Says Dr. Crane of Bureau of Mines.

Birmingham, Ala., April 6—[Special.]—That the gray iron ores which abound in great quantities in Talladega and other counties in east Alabama can be successfully concentrated into products for blast-furnace use is announced by Dr. W. R. Crane, superintendent of the Southern experiment station of the United States Bureau of Mines, located at the University of Alabama, Tuscaloosa. Demonstrations and experiments have been conducted, and, in addition to the gray ores, high-silica red ores were also investigated. These demonstrations and investigations will ultimately prove of great importance to the Birmingham district, as the ores are present in large quantities. The official statement adds:

"The gray ores of Talladega county have been utilized in the production of iron, but owing to their refractory nature and difficulty experienced in producing clean ore in mining their use was discontinued a number of years ago.

"The ores are similar in nature to the high-silica red ores of the Birmingham district, but are considerably more magnetic, the red ores being virtually non-magnetic.

"In the treatment of the gray ores they are given a preliminary roast, changing the ores to the magnetic form, following which the iron content is removed magnetically.

"Much work has been done along similar lines on the red ores, but it is only recently that the method has been applied to the gray ores. A concentrate of high grade and a high percentage extraction have been obtained, and it is reasonable to expect that the cost of the process will not be excessive.

"Similar tests on the high-silica gray ores have yielded excellent results both in grade of concentrate and extraction. Investigations in certain of the high-silica red ores have been completed with good results, and the work of treating all grades of such ores is progressing rapidly."

Asheville Chamber of Commerce Takes Over Work of Western North Carolina, Inc.

Following the retirement of Col. Joseph Hyde Pratt as president of Western North Carolina, Inc., the work of that organization has been taken over by the Asheville Chamber of Commerce, which will "carry out the aims and purposes for which Western North Carolina, Inc., was organized." As explained by the executive committee, Colonel Pratt, "who has conducted the work and realized the vision of Western North Carolina, Inc., so ably during the past year," has resigned because of impaired health, and his resignation was accepted "with the deepest regret."

At the time Western North Carolina, Inc., was organized, it is explained, the Asheville Chamber of Commerce was not prepared to undertake work of that character, but now, "with its thorough organization and with its comprehensive program of progress," it finds itself able to do so. A western North Carolina department has been organized, and this will concentrate its energies on the development of that section.

Contract for \$650,000 Nurses' Home.

Contract has been awarded by Johns Hopkins Hospital, Baltimore, to the Consolidated Engineering Co., local contractor, for the erection of a nurses' home to cost approximately \$650,000. The structure will be L-shaped, fronting 142 feet on Broadway with a 107-foot wing, 8 stories, brick, limestone and steel construction. It will contain a swimming pool. Joseph Evans Sperry is architect; H. F. Doeelman, structural engineer, and C. L. Reeder, mechanical engineer, all of Baltimore.

A Texas Call for Protection to the South's Farming Interests.

President Ed. Woodall of the Colonial Trust Company of Hillsboro, Texas, as chairman of the Texas Division of the Southern Tariff Association, is sending to the cottonseed oil mills of the South some interesting facts in regard to the heavy importation of vegetable oil and vegetable products, out of which oil is produced, and asking for their views in regard to the necessity of ample tariff protection.

Mr. Woodall calls attention to the fact that during the fiscal year ending June 30, 1923, we had importations of vegetable oils amounting to 884,623,018 pounds, as compared with a total production of vegetable oils in this country from domestic raw materials of 977,793,959 pounds. We are thus using nearly as much foreign material for the production of vegetable oils as we are using of domestic material, and every pound thus used militates against the prosperity of Southern farmers.

Mr. Woodall's letter presents the subject very strongly. It is as follows:

"I hand you herewith form of a general letter that my office at Dallas, Texas, is sending out to all the cotton oil mills in the South, asking for an expression of their individual views on the question of a proper tariff on imported vegetable oils into this country.

"When the last tariff bill was under consideration the Interstate Cotton Seed Crushers' Association went on record as opposed to a vegetable oil tariff. The Texas, Oklahoma and Louisiana state associations went on record as in favor of it.

"We have a tariff on soya bean oil, peanut oil and olive oil that gives reasonable protection on these three. There is a tariff on cotton oil, but we never imported any cotton oil of consequence, and such little as we did import was from China and of such grade it was only suitable for the manufacture of soap. There is a tariff of two cents a pound on cocoanut oil, but it is invalidated by copra being on the free list, and enormous quantities of copra are being crushed in this country from the imported copra, and the tariff does not apply against Philippine importations, so this nullifies any protective feature on cocoanut oil.

"You will observe from the figures enclosed that our total net importations of vegetable oils for the fiscal year ending June 30, 1923, were 884,623,018 pounds, whereas our total production of vegetable oils in this country from domestic raw materials was 977,793,959 pounds. I think the figures tell the story, and it is a matter of serious concern to all American fat producers, whether of plant or animal origin.

"Doubtless you have this information, but I thought it not amiss to call it to your attention. The figures are official and were compiled by the efforts of the Southern Tariff Association and the dairy industry in combating the present application by the soap industry through its Washington Bureau of Raw Materials to reduce the rates of duty we now have 50 per cent. All imported vegetable oils except those mentioned are on the free list.

"If our American farmers are to give up their domestic markets to the cheapest living and lowest paid wage and generally cheapest cost of production countries in the world, we had as well prepare to see industry come down to the farmer's level, for if he can't produce at a profit, neither can he buy the products of manufacture he so much needs. It is a foolish national policy that will permit such a thing to exist. It would not exist if there were more educational efforts made, such as you are making."

The letter addressed to oil and cottonseed oil men follows:

To All Mills:

Dallas, Texas, March 24.

We feel that the question of a proper tariff on imported

fats is a matter of great concern to the American farmer, whether he produces animal or vegetable fats, and likewise of concern to us.

We are also anxious to get the real individual sentiment of each oil mill in the South on this question. For these reasons we are mailing to each mill a questionnaire which is herewith enclosed, and we will thank you to answer promptly, giving your sentiments on this great question.

The reason we are seeking this information is that we will likely have some tariff legislation at the next session of Congress, and to know the exact attitude of our industry will be worth while.

For your information we submit you official figures on various imported vegetable, fish and animal fats for the fiscal year ending June 30, 1923—the last figures we have—also the amount of vegetable oil produced from domestic raw materials:

IMPORTS OF PRINCIPAL OILS INTO U.S.A.—1923 ANIMAL AND VEGETABLE OILS.

	Pounds
Cocoanut	178,937,115
Cottonseed	25,044
Olive—edible	77,190,417
Olive—inedible	40,604,534
Peanut	8,008,622
Rape seed	15,932,475
Soya bean	40,940,110
Palm	128,453,883
Chinese vegetable tallow and wax.....	18,286,556
Chinese tung oil.....	87,298,724
Tallow	11,373,792
Other vegetable oils.....	19,320,652
Miscellaneous greases and oils.....	11,165,185
Total imported oils.....	648,704,294
Oil from imported copra.....	235,918,724
Total oil from imports.....	884,623,018

IMPORTED FISH OILS—1923.

	Pounds
Whale oil	28,812,523
Cod and cod liver oil.....	17,374,237
Other fish oils.....	5,375,626
Total	52,562,386

DOMESTIC PRODUCED VEGETABLE OILS—1923.

	Pounds
Cottonseed	971,001,277
Peanut	5,388,647
Soya beans	1,404,035
Total	977,793,959

These figures are startling and are such as to awaken our serious concern. While we believe in a protective tariff, and feel we have reached a period in our economic development when the American farmer can no longer compete with these foreign importations unless he is to change his standard of living somewhat in keeping with that of the countries with which he must compete, we are, nevertheless, tolerant of those who may see it differently, and our only reason for this questionnaire is to get the individual and collective sentiment of the crude-oil industry. We appreciate that we will necessarily have a certain amount of division of sentiment; especially do we understand that some of those who make the finished products and can use, in whole or part, one vegetable oil as well as another, have an interest separate from those of us who are dependent on the farmer for our raw material.

As an evidence of how great has been the inroads on our domestic markets, we only used 292,000 pounds of cocoanut oil in oleomargarine manufacture in 1912—the first year any was ever used—whereas in 1921 we used 103,112,000 pounds, and only 18,533,000 pounds of cotton oil.

As we see it, the question of tariff is one of pure economics—not one of partisan politics; therefore, let us have your economic thoughts on the question, and oblige,

Yours truly,
WOODALL & PENDLETON.

Houston Oil Offers \$7,000,000 Gold Notes.

Houston, Texas.—Of an authorized issue of \$10,000,000 of ten-year sinking fund 6½ per cent gold notes, the Houston Oil Co. of this city has offered \$7,000,000 of these notes. Proceeds will be used to finance the construction of a 200-mile pipe line from gas fields of Live Oak county, Texas, to Houston. As reported recently by the MANUFACTURERS RECORD, this line will be built by the Houston Pipe Line Co., a subsidiary of the Houston Oil Co., the former being capitalized at \$15,000,000.

DEVELOPED AND POTENTIAL WATER-POWER OF THE WORLD.

United States Has 35 Per Cent of Developed Power.

At the end of 1923, according to an estimate made by the United States Department of the Interior, the developed water-power of the world was about 29,000,000 horsepower, an increase of 26 per cent in about three years. The increase was about 1,500,000 horsepower in North America, 3,400,000 in Europe and 1,000,000 in Asia. Europe as a whole has passed the United States in the rate of development of water-power, which has been forced on all the industrial countries except Great Britain by the high price of coal. The increase in the production of electricity by water-power in the United States for the same three years was about 20 per cent. The development of water-power in the United States, although it is now going forward more rapidly than ever before, shows a percentage of increase less than that in Canada, Europe and Japan and in the world as a whole.

It is difficult to co-ordinate estimates of water-power for the several countries, particularly estimates of potential water-power, because of differences in their elements and character and in the completeness and accuracy of the data on which they are based, but the estimates here given are considered sufficiently accurate to afford a rough idea of the potential water-power resources of the world and the extent of their development. The figures for the developed water-power represent the rated capacity of water-wheels or turbines installed, and the figures for the potential power represent the total power that could be obtained at ordinary low water, including the power already developed. The installed capacity usually amounts to two or three times the power available at low water. Thus although the potential power in the United States amounts to 35,000,000 horsepower and the capacity of the water-wheels already installed is 10,000,000 horsepower, the inference should not be drawn that 29 per cent of the water-power resources of the country is developed. Probably with complete development the installed capacity would amount to 70,000,000 horsepower or more, and thus only about 14 per cent of the total resources has yet been developed.

The estimate of the developed water-power in the United States, amounting to 35 per cent of the world's total, includes 9,087,000 horsepower in plants of 100 horsepower capacity or more, an estimate based on excellent data, and 900,000 horsepower in plants of less than 100 horsepower capacity, a very rough estimate based on the census of 1908. Water-power development in the South amounted to 1,673,000 horsepower for plants of 100 horsepower or more. The increase in power since 1921 was 24 per cent, compared with 20 per cent in the United States.

In the following table the figures showing the potential power for the United States represent the power available 90 per cent of the time at 70 per cent efficiency.

SUMMARY OF POTENTIAL AND DEVELOPED WATER POWER IN 1923.

	Horsepower developed	Potential horsepower
United States	10,000,000	35,000,000
Canada	3,227,000	18,250,000
Mexico	300,000	6,000,000
Total North America	13,700,000	66,000,000
Argentina	25,000	5,000,000
Brazil	450,000	25,000,000
Chile	90,000	2,500,000
Colombia	25,000	4,000,000
Peru	55,000	4,500,000
Venezuela	12,500	3,000,000
Total South America	675,000	54,000,000
Sweden	1,416,000	8,000,000
Norway	1,820,000	9,500,000
Finland	220,000	1,800,000
Russia	150,000	3,000,000
Poland	85,000	1,400,000

	Horsepower developed	Potential horsepower
Ukraine	40,000	425,000
Region of the Caucasus	5,000	5,000,000
Czecho-Slovakia	155,000	1,000,000
Jugoslavia	166,000	2,200,000
Austria	439,000	1,660,000
Rumania	30,000	1,100,000
Bulgaria	8,000	1,200,000
Greece	8,000	250,000
Italy	1,800,000	3,800,000
Switzerland	1,490,000	2,500,000
Germany	1,100,000	2,000,000
France	2,100,000	5,400,000
British Isles	250,000	850,000
Spain	1,000,000	4,000,000
Total Europe	12,300,000	57,000,000
Chinese Republic	1,650	20,000,000
India	197,000	27,000,000
Siberia	90,800	8,000,000
French Indo-China .....	.....	4,000,000
Siam and Malay States	4,500	4,000,000
Japan	1,694,000	4,500,000
Total Asia	2,000,000	69,000,000
Gold Coast and British mandate in Togo .....	.....	1,450,000
Liberia .....	.....	4,000,000
Sierra Leone .....	.....	1,700,000
Union of South Africa	5,000	1,600,000
Angola	4,000	4,000,000
Belgian Congo and Belgian mandate	250	90,000,000
French Congo .....	.....	35,000,000
French mandate in Cameroon .....	.....	13,000,000
Nigeria and British mandate in Cameroon .....	.....	9,000,000
Rhodesia	2,500	2,500,000
Tanganyika (British mandate)	800	2,700,000
British Central Africa .....	.....	1,200,000
British East Africa	900	4,700,000
Portuguese East Africa .....	.....	3,700,000
Abyssinia .....	.....	4,000,000
Egypt .....	.....	600,000
Ivory Coast, Dahomey, and French mandate in Togo .....	.....	2,850,000
French Guinea .....	.....	2,000,000
French Sudan .....	.....	1,000,000
Madagascar	100	5,000,000
Total Africa	14,000	190,000,000
Australia	200	600,000
New Zealand	45,000	2,500,000
Philippine Islands .....	.....	1,500,000
Sumatra	20,000	2,000,000
Java	60,000	750,000
Borneo, including New Guinea and Papua .....	.....	7,500,000
Tasmania	70,000	700,000
Celebes	500	1,000,000
Hawaii	25,000	100,000
Total Oceania	220,000	17,000,000
Grand total world (approximate)	29,000,000	453,000,000

Baltimore Commercial Bank's New Quarters.

The Baltimore Commercial Bank has acquired the former home of the National Bank of Commerce, 26 South street, Baltimore, Md., and will remove to and occupy it as soon as extensive improvements have been completed. The building is on a lot 60 by 107 feet, and is a handsome structure, within and without. The front is of Indiana limestone artistically carved, and with a large archway entrance to the banking room that is finished in fine marble. Since the Bank of Commerce merged with the Merchants' National Bank several years ago the building has been temporarily occupied from time to time under rental. The present quarters of the Baltimore Commercial Bank, which it has occupied for about 10 years, are at Pratt street and Market place, but the projected removal will put it in the heart of the financial district of the city. Gwynn Crowther is president and Robert A. Welsh vice-president.

Bids on \$1,000,000 Gold Dust Plant.

Bids for the \$1,000,000 Canton plant to be erected in Baltimore by the Gold Dust Corporation of New York will be received until April 15. According to plans prepared by the New York office of Lockwood, Greene & Co., engineers, the first unit of the new plant will consist of a main building, 5 stories, 220 by 100 feet; four-story building, 99 by 74 feet; two-story building, 78 by 77 feet, and a power house. It is expected to complete construction early in 1926. A second unit will be erected later.

Lumber Exporters and Department of Commerce Co-operating in Building Up Foreign Trade.

Pooling years of experience for national benefit 50 practical lumber exporters have agreed to join a committee to help the Commerce Department in its work of selling American lumber abroad, according to an announcement from Secretary Hoover.

Discussing the significance of the newly appointed Lumber Export Committee, Julius Klein, director of the Bureau of Foreign and Domestic Commerce, stated that a large share of the Commerce Department's success in selling American goods in foreign markets is due to the attitude of leading exporters in different commodities in joining the so-called Industrial Advisory Committees of the Department.

There are nearly 70 of these committees, with memberships made up of several hundred recognized leaders in business, manufacturing, farm co-operative associations, shipping and banking, who have spent years and countless dollars accumulating invaluable experience and commercial information which they donate to the Commerce Department in an effort to put the United States over the top in the struggle for foreign trade. They know just the type and kind of information needed, especially the most effective methods of distributing such data with maximum trade-promotive results, and their guidance eliminates all waste-motion effort.

Working through the commodity experts in the Commerce Department, their advice and guidance are imparted to the thousand-odd Government trade representatives in all parts of the world, whose incoming trade reports, therefore, provide American industry with the precise facts required to jingle the national cash register with the coins of satisfied foreign customers.

Under the Hoover plan, Mr. Klein says, industry is helping the Commerce Department to help industry. Under the old system they had very little voice in the matter, whereas they are now in the closest "offensive and defensive alliance" with their Government department, and are selling their products in all parts of the world, frequently in the face of cut-throat competition and exasperating obstacles of every description.

The personnel of the new Lumber Export Advisory Committee as announced by Axel Oxholm, Chief of the Department's Lumber Division, is:

Howard Andrews, Nashville Tie Company, Nashville, Tenn. National Association of Railroad Tie Producers.
J. D. Arnold, J. Ray Arnold Lumber Company, Groveland, Fla. Georgia-Florida Sawmill Association.
H. L. Askew, Roux Crate Company, Tampa, Fla. Standard Container Manufacturers.
C. Arthur Bruce, E. L. Bruce Company, Memphis, Tenn. Oak Flooring Manufacturers' Association.
J. H. Burton, J. H. Burton & Sons Company, New York, N. Y. National American Wholesale Lumber Association.
O. M. Clark, Clark & Wilson Lumber Company, Portland, Ore. West Coast Lumbermen's Association.
Dr. Wilson Compton, Washington, D. C. National Lumber Manufacturers' Association.
F. G. Davies, A. C. Tuxbury Lumber Company, Charleston, S. C. North Carolina Pine Association.
J. H. Dunning, J. H. Dunning Corporation, New York, N. Y. National Association of Box Manufacturers.
F. H. Farwell, Litcher & Moore Lumber Company, Orange, Tex. Southern Pine Association.
Charles D. Gates, Turner, Day & Woolworth Handle Co., Louisville, Ky. Hickory Handle Association.
E. C. Glenn, Big Salkehatchie Cypress Company, Varnville, S. C. Southern Cypress Manufacturers' Association.
A. B. Hammond, Redwood Export Company, San Francisco, Cal. California Redwood Association.
D. D. Hartlove, Price & Heald, Baltimore, Md. National Lumber Exporters' Association.
L. L. Hillman, Lloyd Hillman Lumber Company, Seattle, Wash. Pacific Lumber Exporters' Association.
F. E. Hoffman, Hoffman Brothers Company, Fort Wayne, Indiana, and Columbia, S. C. National Lumber Exporters' Association.
W. E. Hyde, Hyde Lumber Company, Memphis, Tenn. Hardwood Manufacturers' Institute.
E. A. Lindsley, Lindsley Brothers, Spokane, Wash. Western Red Cedar Association.
John W. McClure, Bellgrade Lumber Company, Memphis, Tenn. National Hardwood Lumber Association.
D. E. Roach, Texas Creosoting Company, Orange, Tex. American Wood Preservers' Association.
Wm. Cook Rogers, Munising Woodenware Company, Munising, Mich.,

and U. S. Handle Export Co., Piqua, Ohio. National Association of Wood Turners.
Huntington Taylor, Edward Rutledge Timber Company, Coeur d'Alene, Idaho, Western Pine Manufacturers' Association.
Louis A. Ward, American Trading Company, San Francisco, Cal. California White and Sugar Pine Association.
Walker L. Wellford, Chickasaw Wood Products Company, Memphis, Tenn. Associated Cooperage Industries.
B. P. Whendon, W. D. Young & Company, Bay City, Mich. Maple Flooring Manufacturers' Association.
J. C. Wickliffe, Ichabod T. Williams & Sons, New York, N. Y. Mahogany Association.
H. S. Wing, Kingfield, Me. New England Association of Wood Turners.
Willard Winslow, Indiana Quartered Oak Co., Long Island City, N. Y. Philippine Mahogany Association.
A. A. Baxter, Douglas Fir Exploitation & Export Co., San Francisco, Cal.
G. N. Lamb, Walnut Export Sales Co., Chicago, Ill.
W. J. Sowers, American Pitch Pine Export Co., New Orleans, La.
W. M. Lynch, Delta Export Lumber Corp., Memphis, Tenn.
Elmer S. Anderson, Southeast Lumber Export Co., New York, N. Y. Hardwoods.
L. L. Chipman, Long-Bell Lumber Co., Longview, Wash. Douglas Fir.
E. R. du Mont, Standard Export Lumber Co., New Orleans, La. Southern Pine.
C. D. Johnson, Pacific Spruce Corp., Portland, Ore. Spruce.
H. B. Johnson, Mansfield Hardwood Lumber Co., Shreveport, La. Hardwoods.
H. T. Kendall, Kirby Lumber Co., Houston, Tex. Southern Pine.
W. K. Knox, Lucas E. Moore Stave Co., New York, N. Y. Cooperage.
Paul W. A. MacMahon, Crane & MacMahon, Inc., New York, N. Y. Hardwood Dimension.
H. T. Nicolai, Nicolai Door Manufacturing Co., Portland, Ore. Doors.
G. J. Osgood, Wheeler Osgood Co., Tacoma, Wash. Plywood.
W. W. Payne, Pacific Export Lumber Co., Portland, Ore. Douglas Fir.
W. M. Ritter, W. M. Ritter Lumber Co., Washington, D. C. Hardwoods.
C. H. Sherrill, Sherrill Hardwood Lumber Co., New Orleans, La. Hardwoods.
F. L. Zang, American Plywood Corp., New London, Wis., and Montgomery, Ala. Plywood.

North Carolina Asks Bids on \$450,000 Building.

Raleigh, N. C.—Bids will be received at the office of R. A. Doughton, commissioner of revenue, until April 14 for the construction of an office building for the Department of Revenue to cost about \$450,000. The building will be five stories and basement, about 100 by 150 feet, with court in rear, marble, concrete and hardwood floors, tile and composition roof, metal doors, vaults, etc. Contracts have already been awarded for foundations, basement walls, steel frame and stone for the exterior. Plans and specifications may be obtained from Atwood & Nash, Inc., Chapel Hill, N. C., architects and engineers.

Contract for \$600,000 Church Addition.

Kansas City, Mo.—Several contracts have been awarded by the First Baptist Church of this city for the construction of an addition to its building at Linwood boulevard and Park avenue, which will ultimately cost about \$600,000. General contract was awarded to John P. Nell & Sons at \$297,368; heating, plumbing and ventilating to MacMahon Co. at \$31,988, and electric wiring to the F. E. Newberry Electric Co. The addition will be two stories and basement, of brick and native stone, and will contain two auditoriums to seat 2000 each. It is planned to erect an additional wing later. J. H. Felt & Co. of Kansas City are the architects.

Plan New Transmission Line.

Atlanta, Ga.—Officials of the Georgia Railway & Power Co., including H. M. Atkinson, P. S. Arkwright and others, have applied for a charter for the East Georgia Power Co. with an authorized capital stock of \$1,100,000. The new company will be a subsidiary of the Georgia Railway & Power Co., and its immediate purpose is to build a transmission system from Toccoa, Ga., to Stephens Creek, about eight miles from Augusta, linking the hydro-electric system of that company with that of the Georgia-Carolina Power Co. Development of water-power sites in eastern Georgia is also contemplated.

The Tennessee Electric Power Co., Chattanooga, is reported to have acquired the Walling Light & Power Co. of McMinnville, Tenn.

Progressive Chattanooga Starts an Advertising Campaign.

The Chattanooga News

Chattanooga, Tenn., March 27.

Editor *Manufacturers Record*:

The city of Chattanooga is embarking upon a voyage to the world. Our vessel is community advertising. We hope that as a result of our travel the world will look in upon us.

A campaign has just closed with success in raising a fund of a minimum of \$50,000 a year for five years for broadcasting our present advantages to America. The city and the county as governmental units have indicated their substantial financial co-operation in the fund. We do not plan a haphazard, hit-or-miss campaign. We do not expect a short campaign to do the work. We are in it for a long pull. Our plan is of this nature, and it ought to be a feasible and beneficial one.

In order to crystallize the ideas which have been put forward for some weeks as to the benefits of a municipal advertising program, the News suggested, in a front-page editorial of March 10, a definite plan of organization for a board of trustees to handle the fund, and announced that we would contribute \$1000 per year for five years to such a fund. The plan suggested was that a board of trustees of from five to seven members be selected, one each by leading civic organizations, such as the Chamber of Commerce, the Greater Chattanooga Association, Chattanooga Clearing-House, the Interclub Senate and the Advertising Club of Chattanooga; that these trustees should administer the fund of at least \$50,000 a year for five years; that they should have power to select a competent advertising agency to handle the campaign; that they should work out a thoroughgoing program for the presentation of Chattanooga's advantages to America and oversee its execution.

Lead in urging the realization of such a plan was taken by T. R. Preston, president of the Hamilton National Bank, who, having recently returned from Florida, realized from examples elsewhere the vital assistance advertising brought to the community. A meeting was held at one of our hotels shortly after, a temporary organization effected and a drive for solicitation of funds undertaken under the chairmanship of John E. Lovell of the Hotel Patten. Ten teams of enterprising young Chattanoogaans shelled the woods for subscriptions and they secured the minimum amount of pledges. They reported a far readier response by the public to the advertising campaign than any prior campaign since the world war.

Chattanooga is beginning to come into her own. We have passed the age of youth. We are going into city manhood. Our industries are expanding, our merchandising facilities enlarging, our hotels are being largely supplemented, our home-building program is on an astounding scale, and I verily believe that the Chattanooga metropolitan area today has a population of 135,000.

One of the things Chattanooga is doing today is annexation. In January we added 17,000 population by the addition of the suburbs of East Chattanooga, Avondale and Churchville. An equally large suburb, East Lake, is petitioning for a special election. Others are on the point of following these examples. For over a decade the city has been satisfied with a corporation limits area of six square miles, while our area of service has been at least 25 square miles. We are rectifying this now by the annexation program.

Chattanooga is also making a good start on city planning; we have suffered a temporary defeat for opening Broad street, but conditions look most favorable for a real success

of this step toward the solution of our traffic and street difficulties in the near future.

These are a few of the forward-march steps we are taking toward a greater Chattanooga, sure to come.

GEO. E. MILTON,
Editor.

An Engineer's View About Muscle Shoals.

(Copy of letter.)

Hugh L. Cooper & Co.,
101 Park Avenue.

New York, February 23.

Mr. L. J. Folse, Manager,
Mississippi Development Board,
Jackson, Mississippi.

Dear Sir:

I have had the privilege of reading in the *MANUFACTURERS RECORD* of February 19 a letter which you have written to the Hon. Pat Harrison, Senator for Mississippi.

It is so very seldom that I encounter any statements in print or from the rostrum that have any sense at all about Muscle Shoals that when I read what you had written I was astonished.

Your analysis of the Muscle Shoals situation and the Southern situation and the needs of the South are all, according to my view, statesmanlike, and show an understanding of the value of Muscle Shoals to the South that is indeed refreshing.

I do not own any land in the South; consequently I write you from no partisan standpoint. I am, however, the engineer who has designed and supervised the construction of the Muscle Shoals work, and I am more than anxious to see this great development made use of in the way God Almighty intended it to be used.

If by any chance you have received a reply from Senator Harrison, and it is not of a confidential nature, please, if agreeable, let me have a copy of the same.

Again congratulating you on what you have said, I beg to remain

Yours very truly,

HUGH L. COOPER.

South Produces Over 93 Per Cent of Country's Fuller's Earth.

The largest output of fuller's earth on record is that for 1924, as reported by the Geological Survey, working in co-operation with the state geological surveys in Alabama, Florida, Georgia and Illinois. Thirteen operators in six states reported that 177,994 short tons of fuller's earth were sold in 1924, valued at \$2,632,342, or \$14.79 a ton. This output is 19 per cent greater than that of 1923, but it is more than four times that of 1914. The value of the output for 1924 was also the largest ever recorded. It was 17 per cent greater than that of 1923 and 5 per cent greater than 1920, the previous year having the record of greatest value. It was more than six times as large as that of 1914. Since 1920 there has been a steady decline in the average price per ton, the price in 1924 being nearly \$5 lower than that in 1920, the year of highest average.

The South continues to produce the larger part of the output. Georgia was the leading state in output and value, displacing Florida, which has occupied that position since the beginning of the industry. Florida was second and Texas was third in output and value. These three states reported 93 per cent of the output and value in 1924. The producing states, named in the order of their output, were Georgia, Florida, Texas, Illinois, Massachusetts and Alabama.

\$1,000,000 Addition to Arcade at Miami.

Construction has begun on a \$1,000,000 addition to the Central Arcade Building in Miami, Fla., which is being erected by Central Properties, Inc., John Seybold, president. It will be of steel frame and tile construction, 10 stories



CENTRAL ARCADE BUILDING, MIAMI, FLA.

high, with composition roof, and will be equipped with six elevators. General contract has been awarded to John B. Orr and plumbing contract to Alexander Orr, Jr., both of Miami, while contract for steel frame has been awarded to the Ingalls Iron Works, Birmingham. Kiehnel & Elliott of Miami are the architects and E. A. Stuhman is engineer.

England Worried Over China Clay Industry.

Plans to arrest the development of the china-clay industry in other countries than England, and especially in the United States, are advanced in the Chemical Age, London, official organ of the English china-clay industry, which says:

"The china-clay industry is now beginning to feel the effect of the development of china-clay deposits in other parts of the world, and the fact that the test of their value is always a comparison with our clays shows that ours are looked upon as the acme of quality. We are now seeing the beginning, especially in the American markets, of a systematic, organized and determined attempt to oust our clays, and it is an experience parallel with that which at first confronted the tin-mining industry through the discovery and development of tin in other countries, and which eventually killed the industry in many parts of Cornwall.

"The only way in which foreign development can be arrested is for our producers to be able to place their clays in those markets at such a price as to render the foreign produce unprofitable. One way in which this can be done so as to ensure for the industry a fair margin of profit is to cut out wasteful expenditure and to organize the industry as a whole. One method would be by the pooling of interests and the capitalization of all the separate concerns on an equitable basis of valuation, and the working of the industry by the producers and royalty owners."

Last year's figures of production of kaolin in the United States and the imports are not as yet available, but in 1923 the United States produced 336,803 tons, which was an increase of 51 per cent over the average production for the

past 10 years. The imports in 1923 were 311,298 tons of kaolin, an increase of 23 per cent over the average for the past 10 years.

Of the domestic production, Georgia leads with 36 per cent, followed by Pennsylvania with 18 per cent, South Carolina with 16 per cent and North Carolina 7 per cent. The steady American gain in supplanting foreign clays is considered gratifying, but still the United States imports are almost as much as it produces.

Improvements for Platt National Park.

Sulphur, Okla.—Bids will be opened April 27 by George E. Goodwin, chief civil engineer, National Park Service, in the office of the superintendent of Platt National Park here, for the installation and improvement of drainage structures, widening and surfacing roads of Platt National Park. Instructions to bidders, proposal blanks and specifications may be obtained from the office of the chief civil engineer, Portland, Ore., and may be seen at the office of National Park Service, Washington; office of superintendent of Platt National Park, Sulphur; chambers of commerce at Oklahoma City, Ardmore, Pauls Valley, Shawnee, Guthrie, Davis and Tulsa, Okla.

Bids Asked on \$2,000,000 Masonic Temple.

New Orleans, La.—Contractors have been asked to submit bids until May 23 to the Grand Lodge of Louisiana, John A. Davilla, Grand Secretary, for the erection of the proposed \$2,000,000 temple to be erected here. The building will be 15 stories, 100 by 165 feet, steel and concrete construction, with a pile foundation, concrete and hardwood floors, composition roof, metal doors, steel sash and trim and wire glass. General contract will include all work except structural steel, heating, plumbing, ventilation, oil-burning equipment, electrical work, elevators, mail chutes, vault door and equipment. Sam Stone, Jr., of this city is the architect.

Greensboro to Have 250-Room Hotel.

Confirming reports of the purchase by himself and associates of property in Greensboro, N. C., for the erection of a commercial hotel, C. O. Yokum of New York wires the MANUFACTURERS RECORD that the purchasers plan to erect a hotel of approximately eight stories, to contain 250 rooms with bath. It is announced in Greensboro that a new company will be organized with a capital stock of \$1,200,000 for the erection of the building, and that J. E. Latham of Greensboro is interested in the enterprise.

Bank and Store Buildings to Cost \$300,000.

Charlotte, N. C.—Plans are being prepared by Louis H. Asbury and Lockwood, Greene & Co., both of this city, for a bank and store buildings to be erected by the First National Bank at a cost of approximately \$300,000. The structures will measure 60 by 200 feet, four stories, of concrete, brick and limestone, with concrete floors and roof. They will be equipped with metal doors, vaults, vault lights, ventilators, steel sash and trim and wire glass.

\$1,500,000 Apartment Building for Dallas.

Dallas, Texas.—A co-operative apartment building to cost \$1,500,000 will be erected on Oak Lawn avenue in this city, according to a statement by the Roy A. Nelson Co., rental agents for the structure. The building will be largely financed by outside capital, it is said, and will be 14 stories high, of reinforced concrete construction, and will contain 115 apartments. Henry Coke Knight is the architect, associated with E. A. Thomas, both of Dallas.

THE IRON AND STEEL SITUATION

Quieter Market in Steel.

Pittsburgh, April 6—[Special.]—The steel market has been still quieter in the past week, in point of turnover, but the point cannot be too strongly emphasized that this does not indicate any decrease in consumption. Steel production has run well in excess of consumption for three or four months past and the trade is well supplied.

Buying of steel has been adversely affected by two factors, one being the various prognostications that business in general is on the down-grade rather than the up-grade, or, put in another way, that while the present half year is doing well the second half of the year is much in doubt. Such predictions are of little, if any, value and it is unfortunate that business men are so much influenced by them.

A much more practical point in causing buyers' of steel to be conservative in making further commitments is that with the softening in steel prices in the past two months the current market is down nearly to the level at which stocks were accumulated, making buyers disposed to liquidate stocks. If such a policy were pursued with vigor, the rate of steel production might have to go as much below the rate of consumption in the next three months as it has been above it in the past three.

There has been no quotable decline in any finished steel product in the past week, but some lines are a shade softer in tone. Sheets had already gotten down approximately to their low level of late last year and the market is now supposed to be well shaken out. In wire products efforts to obtain the advanced prices announced early in February have been practically abandoned, but as these prices had never become established this does not represent an actual decline. Nails are quotable at \$2.85, while jobbers have large stocks laid in at not over \$2.75. Bars and shapes are quotable at 2.10c, at which even single carloads can be bought, while plates remain at 2.00c to 2.10c.

In semi-finished steel there is a nominal decline, as sheet bars are not quotable at over \$37, while mills had been talking first \$40, then \$39, and finally of late \$38, but as there remains unspecified tonnage on first quarter contracts at \$37 this is the quotable market, for if sheet bars were worth more the consumers would have specified or the producers would have canceled. This makes billets quotable at \$35.50 to \$36.

Steel ingot production averaged slightly under 89 per cent in March, against 89.6 per cent in February and 89 per cent in January, making the quarter average about 89 per cent. Mill operations have been decreasing and the rate last week was about 85 per cent, with prospects of further decreases, no slump being in prospect such as occurred a year ago, but rather a gradual tapering off.

No steel consuming line is showing a decrease in activity and some are showing increases, such as the agricultural implement and automobile trades. Railroad buying has been light in the past few weeks, but the railroads have large programs for this year, which are not at all likely to be departed from. Freight-car shops are working well on old orders.

Fabricated steel bookings reported last week totaled 20,000 tons, against 53,000 tons the preceding week, the record week this year. The average in the past four weeks was about 38,000 tons weekly, or fully 10 per cent above the average in the preceding nine weeks of the year.

The pig iron market of the Pittsburgh Valley district has been very dull, really stagnant, much in line with conditions in other pig iron districts. Bessemer remains quotable at \$22, valley, and foundry at \$21, valley, on small sales, while

basic is offered at \$20.50, valley, a decline of 50 cents, while there is no inquiry.

Connellsville coke has been very quiet. There was a little fear a week ago that labor troubles in West Virginia, promised by the United Mine Workers for April 1, might spread northward to the Connellsville region, but there is no longer any concern. The spot market is easy at \$3.25 for furnace at \$4 to \$4.50 for foundry.

Heavy melting steel scrap is at \$17.50 to \$18, or 50 cents decline in the week and \$4.50 decline from the top level at the first of the year.

Furnace Companies Look to the Future.

Birmingham, Ala., April 6—[Special.]—Consumers of pig iron in the Southern territory are still looking for recession in the quotations for the product. The producers of pig iron in the Birmingham district hold strongly to the opinion that their quotations have not been too high; that, in comparison with the average prices of last year, the base this year, \$22 per ton, No. 2 foundry, has been low. The reduction in price announced by one of the smaller manufacturers of iron last week and a similar occurrence in Tennessee did not bring about any break in the market and the trend has continued along steady lines, both sides looking for something to happen, the furnace companies confident that sooner or later there will be buying of iron. The sales in the past several weeks have been slow and in small lots. One company reported 1000-ton lots sales, but declared market conditions only fair. No intimation is given as yet as to a curtailment in production in this territory.

Cast-iron pressure-pipe manufacturers in the district are holding to the \$40 per ton base, Birmingham, on six-inch and over pipe, and a statement is made that while selling has been a little slow recently orders have piled on books which will warrant steady operation of plants for from three to six months at least. The opinion has not changed that the present year will prove profitable to the pressure-pipe industry—as good, if not better, than last year.

Soil-pipe and fittings producers are confident there will be improvement in their business, and that within a short while much stock can be withdrawn from the warehouses and plants put on a steadier production and more iron melted. In the immediate Birmingham district there are several soil-pipe plants which have been operating to capacity and are still working off a large quantity of business, with bright prospects of further orders.

Iron is being used in other directions than pipe, the varied diversifications of the district now showing results. Grate bars, gasoline and oil pumps, cotton compresses and many other products are requiring iron in various lots, and the numerous industries have prospects of steady operation for some time to come. Stove foundries are doing well, though the end of season of activity is almost at hand.

The Birmingham Machine & Foundry Co. is producing several cotton presses, two of which are round-bale presses. This shop has been shipping out some sugar-machinery repairs, as well as new machinery for Cuba. Others of the larger machine shops and foundries of the Birmingham district are producing sugar machinery and other work for export.

Steel market conditions in the district are reported looking up some, and the belief is that during the balance of the year there will be warrant for steady production and greater shipment of the product. More interest is manifested now in the completion and starting up shortly of the new steel mill of the Tennessee Coal, Iron & Railroad Co. at Fairfield.

The Ensley and Fairfield mills will almost be able to supply all the steel needed here and the new sheet mill will attract other industries. The statement that the Tennessee Coal, Iron & Railroad Co. would hardly be ready to produce cotton ties for this season's delivery gives continued opportunities to the Connors Steel Company. The addition to the plant of the McWane Cast Iron Pipe Company, East Birmingham—manufacturers of pressure pipe with precalked joints, pipe ranging in size from 1¼ to 6 and 12 inches—is nearing completion and upward of 200 men will be added to its labor rolls in May.

The coal industry is moving along in a steady manner, the production continuing around 365,000 to 370,000 tons the week. In a few weeks consideration of annual contracts will be taken up, and opinion is expressed that similar tonnages to the present 12 months will be contracted for. The coal operators of the district are confident there will be steady operation of mines through the year. No contention is on between employees and employers in this district and no unrest noted.

The coke market is steady, with demand for practically all the coke being produced, and the output still strong. Furnace and mill needs are heavy. Independent coke producers are selling their output right along. Quotations range around \$5 per ton, foundry coke, with beehive coke selling as high as \$5.50 per ton, small lots.

The scrap iron and steel market is still slow, though better feeling is noted among the dealers. Quotations remain the same as for the past three or four weeks. Yard forces are being maintained and stock being purchased. A new and large consumer of scrap is giving encouragement for the future.

Pig iron and iron and steel scrap quotations in the Birmingham district are as follows:

PIG IRON.		
No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$21.00 to \$22.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$21.50 to \$22.50; iron of 2.75 to 3.25 per cent silicon, \$22.00 to \$23.00; iron of 3.25 to 3.75 per cent silicon, \$22.50 to \$23.50; iron of 3.75 to 4.25 per cent silicon, \$23.00 to \$24.00; charcoal iron, f. o. b. furnaces, \$30.00.		
OLD MATERIAL.		
Old steel axles	\$18.00 to	\$19.00
Old iron axles	19.00 to	20.00
Old steel rails	14.00 to	15.00
Heavy melting steel	14.00 to	15.00
No 1 cast	17.00 to	17.50
Stove plate	14.50 to	15.00
No 1 railroad wrought	13.00 to	14.00
Old car wheels	16.00 to	17.00
Old tramcar wheels	17.00 to	17.50
Cast-iron borings	8.00 to	9.00
Machine shop turnings	8.00 to	9.00
Cast-iron borings (chem.)	15.00 to	16.00

Heavier Rail Laying on Southern System.

Atlanta, Ga.—Heavier rail was laid on 795 miles of track by the Southern Railway system during 1924. Of this total, 412 miles of track were laid with new 100-pound rail, more than doubling the mileage of 100-pound rail in service; 85-pound rail was laid on 325 miles of track, and rail of other weights was laid on 58 miles of track, rail of lighter section being released in every case. The 100-pound rail was laid in double-track main lines carrying the heaviest traffic, and at the end of 1924 the Southern Railway had a total of 728 miles of track laid with 100-pound rail. The program of heavier rail laying is being actively continued, and for the year 1925 37,300 tons of 100-pound rail have already been purchased, enough to lay 233 miles. Also 20,708 tons of new 85-pound rail have been bought, enough to lay 155 miles.

Plan Office Building at Jacksonville.

A site has been purchased in Jacksonville, Fla., by the Title & Trust Co. of that city on which, it is reported, a 10 to 15 story building will be erected. Charles H. Mann, president of the company, wires the MANUFACTURERS RECORD that plans for the building have not been perfected.

RAILROADS

CHESAPEAKE & OHIO MERGER APPROVED.

But Lease to Nickel Plate System Must Not Be Made Until Court Decides.

Minority stockholders owning 137,000 shares out of 700,000 voted in the Chesapeake & Ohio Railway Co. strenuously opposed the merger of that system with the Nickel Plate roads as outlined by the Van Sweringen brothers of Cleveland when the stockholders' meeting on the proposition was held at Richmond, Va., March 30. They protested that the Chesapeake & Ohio would lose much that it was rightfully entitled to by the deal and, although the management was victorious in the vote, the matters in dispute between the majority and the minority interests will be adjudicated in the Virginia courts, that having been the assurance given by counsel for the company to the Court of Chancery when that tribunal denied the application of the minority for an injunction to prevent the meeting.

It had been declared in a statement from a minority source that the Chesapeake & Ohio Railway would contribute \$2,224,000 more than it would receive in the proposed merger with the Nickel Plate, the Erie and the Pere Marquette roads, and that the Pere Marquette would receive \$2,720,000 more than it would contribute, while the Erie would gain \$979,000 and the Nickel Plate (New York, Chicago & St. Louis Railway) \$700,000 more than contributed by them; the Hocking Valley Railroad would, it was also claimed, lose \$150,000.

On the other hand, it was claimed by the majority interest in the Chesapeake & Ohio Railway Co. that the system would reap large advantages from the proposed merger, which, according to a press report from Lynchburg, Va., has been approved by the new board of the Virginia State Chamber of Commerce at its first meeting. A statement given out by that body asserted that if the Chesapeake & Ohio did not enter the consolidation proposed it would simply continue to have its line from tidewater to the Great Lakes without the advantages of the proposed association with the other distributing lines of road. It was further asserted that Hampton Roads would be greatly benefited by the merger, for the proposed combination would reach tidewater only at the ports of New York and the ports on Hampton Roads, to which latter the Chesapeake & Ohio route is a short line for both export and import business.

At the meeting of the stockholders of the Hocking Valley Railroad held in Columbus, Ohio, the proposed merger was also approved, less than 16,000 shares out of a total of more than 106,000 voted being cast against it.

"Santa Fe" Has Big Plans in Texas.

S. T. Bledsoe of Chicago, general counsel of the Atchison, Topeka & Santa Fe Railway System, while attending a recent meeting of officials held at Fort Worth, Texas, stated that the company is considering the idea of building a line direct from there into the Texas Panhandle to make a short route and thus avoid the long detour now necessary for traffic between Fort Worth and the plains country.

"We have not definitely decided on building from Fort Worth west into the plains," said Mr. Bledsoe, "but the construction is being seriously considered, not for something to be acted upon in the future but a step to be taken right now. We have great confidence in the development of Texas, as evidenced by our many extensions built into west Texas, and we intend to build more. That is certain. I don't know much about the projected Texas, Panhandle & Gulf road,

but the Fort Worth & Denver has amended its charter to build from Estelline westward into our territory, and naturally we want to protect ourselves."

Simultaneously with Mr. Bledsoe's visit to Fort Worth plans were filed by his company at the Texas state capital, Austin, for the construction of two new lines in the Panhandle country, one from Plainview to Silverton, Texas, 35 miles, and the other from Plainview to Dimmitt, Texas, or near there, 68 miles. Survey has also been made for a line from Silverton southeast to Benjamin, Texas, about 100 miles, which latter line would probably be part of the contemplated route between Fort Worth and the plains. Construction of the first two lines mentioned will be something more than \$3,000,000, according to estimates.

This proposed construction is in addition to the Santa Fe's building of a line from Doud, Texas, ten miles from Lubbock, westward for 60 miles, for which application was recently made to the Interstate Commerce Commission.

Winter Results on the Railroads.

Class 1 railroads for the first two months of this year had a net operating income of \$130,745,960, which was at the annual rate of return of 4.76 per cent on their property investment, and which compares with \$123,009,840, or 4.62 per cent, for the same period of last year, this notwithstanding that the month of February this year showed a decrease of nearly \$6,700,000 in net operating income as compared with February of last year. Net operating income is what is left after the payment of operating expenses, taxes and equipment rentals, but before interest and other fixed charges are paid.

A review of the earnings by railroad districts for the first two months this year shows that the percentage of return on property investment on an annual basis was greatest in the Pocahontas region, being 7.48 per cent, next being the Southern district with 5.67 per cent, which compares with 5.58 per cent in New England, 5.40 per cent in the Great Lakes region and 5.43 per cent for the entire Eastern district. The Northwestern region showed the lowest rate of annual return—2.63 per cent.

Loadings of revenue freight on the railroads during the week ended March 21 totaled 909,363 cars, an increase of 973 cars as compared with the same week of last year, although there was a decrease of over 14,700 cars as compared with the next previous week this year, this decline being due to a falling off in coal shipments, as well as in shipments of grain and grain products, coke, forest products, merchandise, etc.

The Northwestern district was the only district to report an increase over the previous week in loadings of all commodities.

Since January 1 there have been 10,833,840 cars loaded with revenue freight, which compares with 10,680,622 cars in the same period of last year.

Texas & Pacific Spending \$2,000,000.

Big Springs, Texas, April 4—[Special.]—Extensive improvements are being made to the Rio Grande division of the Texas & Pacific Railway at a total cost of \$2,000,000. New 90-pound steel rails are being laid between Big Springs and Sierra Blanca; all embankments are being widened to 20 feet across the crown; the roadbed is being ballasted with crushed rock; many grade crossings are being eliminated; curves are being straightened and new bridges built. Important improvements are also being made to other parts of the system. The division between Texarkana and Longview is being relaid with 110-pound steel and the freight yards at a number of towns are being enlarged.

BIG COAST LINE YARD NEAR TAMPA.

Lyman Delano, Vice-President, Announces Extensive Plans to Relieve Traffic Conditions.

Tampa, Fla., April 4—[Special.]—Further particulars concerning the big improvement to be made by the Atlantic Coast Line Railroad just east of Tampa have been given by Lyman Delano, vice-president.

With the construction of the new yards on the 100-acre tract, 75 per cent of the freight and passenger trains which are now obliged to cross the city will be unloaded, repaired, etc., at Uceta, a station near Tampa where the Coast Line tracks cross the Tampa Southern Railway. This will not only help solve the traffic problem on the city streets but will eliminate the classification yards on the west bank of the Hillsborough River and pave the way for opening up of several important street crossings. It will also provide adequate quarters and facilities for loading and unloading cars so that freight can move forward at the necessary rate of speed.

Mr. Delano stated that, foreseeing the growth of Tampa in the future, space will be provided for the terminals to expand to three times the capacity which they will have at the completion of the present plans. In the new yards 610 cars can be accommodated at one time, and the plans include 10 miles of tracks, a turntable, roundhouse, machine shop with drop pit, storehouses, office buildings, oil house, blacksmith shops, a 500-ton coaling plant, a cinder hoist, water-softening plant, and houses for washing, cleaning and repairing cars.

It was through the efforts of a committee for investigating traffic and transportation appointed by F. D. Jackson, president of the Tampa Board of Trade, at the request of Mayor P. G. Wall, that the officials of the Coast Line were brought to a realization of the urgent need in this section for better rail service and for relief of the downtown automobile traffic congestion in Tampa.

Revised Rates Asked to Protect Against German Steel Goods.

Austin, Texas, April 3—[Special.]—A feature of the hearing just held before the State Railroad Commission on the application of the Texas Steel Company for a readjustment of rates on reinforcing steel and bar iron was the statement made by George W. Armstrong, president of the company; that unless the proposed readjustment is made steel and iron products of German manufacture will displace those of domestic manufacture in Texas. He charged that German manufacturers are attempting to undermine the American market for these commodities. He favored penalizing all German steel coming into Texas at the rate of \$10 a ton.

Testimony was given by Mr. Armstrong that, because of cheap labor in Germany, steel coming to Texas from that country can be sold at a price below that of the American market. His plant, which he said represented an investment of \$1,000,000, was entitled to protection against what he called "illegitimate competition."

The Railroad Commission took the case under advisement.

A Railroad to Serve Industries.

Austin, Texas, April 3—[Special.]—The North Side Belt Railway Company of Houston has filed incorporation papers here. Its nominal capital stock is \$10,000, and its purpose is to build and operate a terminal railway five miles long along the Houston ship channel to serve oil refineries and other industrial plants. The directors are: A. M. Johnson, J. Y. Powell, T. T. Arnold, H. J. Cullinan, J. R. Morgan, W. T. Sinclair and Beeman Strong, all of Houston.

GOOD ROADS AND STREETS

For Dallas Northwest Highway.

Dallas, Texas.—Rights of way for the proposed Northwest Dallas Highway have been secured, according to an announcement by a committee of the Dallas Chamber of Commerce which is promoting the project. The proposed road will extend for 40 miles in an almost straight line, connecting Bankhead Highway No. 1 at White Rock Lake with Meridian Highway No. 2 at Rhome in Wise county. It is stated that the graded roadbed of the old Dallas, Pacific & Southwestern Railroad to Rhome will be used, and that for nine miles in Dallas county the road will be paved with concrete to a width of 60 feet from White Rock Lake to Grapevine. From the latter point to Rhome it will be 20 feet wide.

Assurances are said to have been given the Chamber of Commerce by the State Highway Commission that the road will be designated as a state highway, for which state and Federal aid will be available. It is understood that the remainder of the cost will be borne by a bond issue and that details for this will be arranged at once. Engineering plans for the road were prepared by Koch & Fowler, engineers, of this city.

Highways Research Bulletin Issued.

The Highway Research Board, division of Engineering and Industrial Research of the National Research Council has issued a Summary Bulletin of the proceedings of the last two annual meetings, so that highway officials and road builders may quickly obtain information as to the latest developments in highway research. The Board is composed of representatives of those national organizations interested in the development of the highways of the country, and its membership includes representatives of technical organizations, of Federal and state departments and of higher educational institutions.

With the Summary Bulletin an executive is able to acquire quickly the high points of research results, and it is believed that its publication will fill a definite need. Among the subjects on which reports have been made by the various committees are the following:

Economic Theory of Highway Improvement; Structural Design of Roads; Character and Use of Road Materials; Highway Traffic Analysis; Highway Finance; Maintenance of Roads, and Economic Value of Reinforcement in Concrete Roads.

Alabama Asks Bids on 42 Miles.

Montgomery, Ala.—Sealed proposals will be received until April 15 by the State Highway Commission, at its office in this city, for the construction of approximately 42 miles of road and a number of bridges. One project covers 17 miles of sand-clay road between Greenville and Pineapple in Butler county, and another 25 miles of construction on the road between Hunter Station and Chilton county line in Montgomery and Autauga counties, including bridges and an underpass.

Waco Will Pave Streets.

Waco, Texas.—The Board of Commissioners of this city and Mayor Thomas P. Stone will receive bids until April 21 for paving a number of streets to involve more than 85,000 square yards of pavement, nearly 17,000 lineal feet of curb and about 43,000 lineal feet of gutter, besides other work. Bids will be asked on the following types of pavement: Warrenite bitulithic, limestone rock asphalt and asphaltic concrete.

\$600,000 Bridge Contract.

St. Augustine, Fla.—Marking the first important move which makes possible the construction of the proposed boulevard from St. Augustine along the ocean front to Daytona, the St. Augustine City Commission has awarded contract at \$609,642 to the P. T. Cox Contracting Co. of New York for building the proposed bridge across the Matanzas River here. The award was made on the approval of J. E. Greiner of J. E. Greiner & Co., Baltimore, consulting engineer.

Construction of the boulevard will be financed by the sale of bonds, which have been issued by the several communities through which this important project will extend.

Tennessee Roads to Cost \$1,200,000.

Nashville, Tenn.—Bids will be opened April 24 by the Tennessee State Highway Department for approximately 50 miles of roads estimated to cost \$1,200,000. Work will include 3.11 miles of bituminous macadam, 15.87 miles of concrete, 20.86 miles of bituminous concrete and 8.56 miles of slag surfacing. In addition bids will be received for the construction of reinforced concrete drainage structures and concrete head walls on approximately four miles of road, and for building a concrete bridge of three 30-foot spans over Trammel Creek.

A Florida County to Vote on \$1,500,000.

Tallahassee, Fla.—By action of the County Commissioners, Leon county will vote May 5 on a bond issue of \$1,500,000 for the construction of roads. Projects embraced in the call for the election cover a total of 70 miles, including state road No. 1 for its entire length across the county. It is also planned to hard-surface state road No. 10, extending from the Georgia line through the county toward the Gulf of Mexico, and road No. 19 towards Perry, beside several sections of sand-clay roads.

Six Kentucky Bridges.

Frankfort, Ky.—Bids will be received until April 21 by the State Highway Commission, at the office of the state highway engineer in this city, for the construction of six bridge projects, including four in Perry county, one in Crittenden and one in Warren county. The structures will be of steel span type with concrete approaches, or of reinforced concrete.

Lake Shore Road to Cost \$2,000,000.

New Orleans, La.—It is announced here that construction work on the Lake Shore link of the Hammond-New Orleans highway will be started this summer. Preliminary surveys are now being made by the State Highway Commission. It is estimated that the cost of the project will reach \$2,000,000.

16 Miles to Cost Over \$300,000.

Low bids recently submitted to the Maryland State Roads Commission, at its office in Baltimore, for the construction of eight projects total \$321,048. The work will include 7.83 miles of concrete shoulders to cost \$96,223 and 8.49 miles of concrete surface to cost \$224,825.

Contracts for the construction of 37 miles of roads will be awarded by the Arkansas State Highway Commission on April 15. Work will embrace two miles in Union county, 11 miles in Poinsett county, 10 miles in Grant county and 14 miles in Lee county.

TEXTILE

ANOTHER NORTHERN MILL GOES SOUTH. Brighton Mills to Build \$1,250,000 Plant Near Rome, Ga.

According to advices to the MANUFACTURERS RECORD from the Brighton Mills, Passaic, N. J., W. L. Lyall, chairman of the board, stockholders of that firm have authorized the removal of the spinning mill to a site near Rome, Ga. Reports from Rome state that the company has secured options on 1000 acres of land on the Southern Railway, through the co-operation of the Rome Chamber of Commerce, and that a mill will be erected at a cost of \$1,250,000. Water supply will be secured from Woodward Creek, the water to be pumped into a reservoir and filtering plant between the creek and mill. Hydro-electric power will be supplied by the Georgia Railway & Power Co.

Plans for financing the new spinning mill, as outlined in a letter by Mr. Lyall to stockholders of Brighton Mills, call for the organization of a Georgia corporation with authority to issue \$500,000 of bonds and \$100,000 of preferred stock, bonds to be purchased by Southern banks and the preferred stock by citizens of Rome.

Contracts for Sayles-Biltmore Bleacheries.

A number of contracts have been awarded by the Sayles Finishing Plants, Inc., of Saylesville, R. I., which is building the Sayles-Biltmore Bleacheries at Biltmore, N. C., at an estimated cost of \$2,000,000. J. E. Sirrine & Co., Greenville, S. C., engineers for the project, advise the MANUFACTURERS RECORD that contract for foundation has been awarded to the Raymond Concrete Pile Co., New York; for grading side track, streets, roads and drainage ditch, H. A. Wells Construction Co., Asheville, N. C.; building 75 tenement houses, W. M. Welch, Inc., Greenville, S. C., and for plumbing in dwellings, to Edens & Moon, Greenville.

A turbo generator has been purchased from the General Electric Co., Schenectady, N. Y.; switchboard from the Westinghouse Electric & Manufacturing Co., Pittsburgh, Pa.; condenser from C. H. Wheeler Manufacturing Co., Philadelphia; boilers from the Babcock & Wilcox Co., New York; stokers from Riley, Sanford Stoker Co., Worcester, Mass., and soot blowers from Diamond Power Specialty Co., Detroit, Mich. The Alphons-Custodis Chimney Construction Co., New York, will build a chimney.

"The South—Your Textile Opportunity."

An attractive and interesting illustrated booklet has been issued by the Development Department of the Seaboard Air Line Railway, Savannah, under the caption, "The South—Your Textile Opportunity," which forcefully presents some of the many advantages of Southern communities for the location of textile industries. Observing that the major fundamentals for the profitable operation of any industry are materials, power, labor, transportation and management, interesting statistics are given under the general heads of Labor, Power, Natural Resources and Transportation Facilities relative to textile territories which the Seaboard Air Line serves.

As secondary elements the booklet enumerates other causes combining to affect the location of industrial plants, such as health, climate, laws and taxation, public improvements, cost of living, social and living conditions and the local attitude towards new industries, presenting statistics and discussing these elements as they apply to the states of Georgia, Ala-

bama, North and South Carolina and Virginia. The excellent views show Southern hydro-electric developments, textile mill and village scenes, schools, picturesque landscapes and other subjects. In one section are charts and maps devoted to the following: Cotton-Growing Sections of the South, Normal Annual Temperature, Normal January Temperature, Normal July Temperature, Normal Annual Precipitation, Location of Cotton Mills in Southeastern states, Electric Power Transmission System in Southeastern states, and a map of the Seaboard Air Line Railway.

\$3,500,000 for New Unit to Be Erected by the Viscose Corporation.

Roanoke, Va., April 4—[Special.]—The Viscose Corporation of Virginia, operating a large plant here for the production of artificial silk and employing 4000 operatives, has announced that it will build at once the fifth unit of its plant, entailing an investment of approximately \$3,500,000. The additional unit is expected to be ready for operation in twelve months and to give employment to 1500 additional operatives.

H. C. Neren, manager of the Viscose Corporation of Virginia, in his announcement of this large addition, says: "We are building this additional unit to our Roanoke plant because we believe in Roanoke. We like Roanoke. We think it is a fine place, and I might add that we employ all Anglo-Saxon labor." Mr. Neren predicts that in future years the South will be the foremost section of the country in textile trades.

To Issue \$400,000 Additional Stock.

Chattanooga, Tenn.—At a meeting of the board of directors of the Dixie Mercerizing Co. of this city decision was reached to issue \$400,000 of additional stock, all of which, it is said, will be offered to present shareholders. Funds obtained from the sale of the stock will be used to defray construction costs of two plant units nearing completion, according to report, these to include a spinning mill addition to the plant on Hixson pike and an addition to the mercerizing plant at Ridgedale. The former will add 3000 additional spindles, while the latter will increase the capacity of the mercerizing plant 75 per cent. Robert & Co., Inc., Atlanta, are engineers for the spinning mill, and Thompson Bros. Construction Co., Charlotte, contractors. Plans for the addition to the mercerizing plant were prepared by R. S. Pringle of Atlanta, the Selman O'Brien Construction Co. of Chattanooga being contractors.

National Yarn Processing Company.

Rossville, Ga.—Capitalized at \$600,000, the National Yarn Processing Co., as reported in the MANUFACTURERS RECORD last week, will build a large mercerizing, bleaching and dyeing plant here. Officers of the new company include: T. H. McKinney, president; Scott L. Brobasco, vice-president, and Tom Moore, secretary and treasurer, all of Chattanooga. These also constitute the majority stockholders in the enterprise.

Mill buildings, to have approximately 75,000 square feet of floor space, will include two main structures, one of reinforced concrete, two stories, to accommodate winding and finishing machinery, while the other will be of steel construction, 60 by 50 feet, and will be devoted to mercerizing and quilling. The plant will have a weekly capacity of 150,000 pounds of finished yarns and will employ about 200 workers.

McLin Textile Mills, Rome, Ga., plan to issue \$200,000 of preferred stock for the purpose of installing additional machinery.

LUMBER AND BUILDING MATERIALS

Pronounced Activity in the Lumber Industry.

Washington, April 2.—Reports to the National Lumber Manufacturers' Association here covering the activities of 376 of the principal softwood lumber mills of the country indicate satisfactory current trend in the American lumber industry. In production, shipments and new business the reporting mills enjoyed a total volume that was not only greater than for the preceding week but also than that for the corresponding week of 1924. New business, in fact, was 10 per cent larger than last year. Unfilled orders accumulated 9,000,000 feet.

The unfilled orders of 257 Southern Pine and West Coast mills at the end of last week amounted to 667,934,070 feet, as against 659,090,303 feet for 255 mills the previous week. The 134 identical Southern Pine mills in this group showed unfilled orders of 244,705,922 feet last week, as against 250,812,628 feet for the week before. For 123 West Coast mills the unfilled orders were 423,228,148 feet, as against 408,277,675 feet for 121 mills a week earlier.

Altogether the 376 comparably reporting mills had shipments 100 per cent and orders 101 per cent of actual production. For the Southern Pine mills these percentages were, respectively, 100 and 93, and for the West Coast mills, 108 and 117.

Of the comparably reporting mills, 351 (having a normal production for the week of 223,415,652 feet) reported production 103 per cent of normal, shipments 105 per cent and orders 107 per cent.

The following table compares the national lumber movement as reflected by the reporting mills of seven regional associations for the three weeks indicated:

	Past week	Corresponding week 1924	Preceding week 1925 (revised)
Mills	376	387	378
Production	245,095,659	237,895,345	244,038,301
Shipments	245,620,639	239,352,927	223,821,095
Orders	247,987,967	217,850,319	228,144,501

The following revised figures compare the lumber movement for 13 weeks of 1925 with the same period of 1924:

	Production	Shipments	Orders
1925	2,946,481,984	2,917,600,202	2,815,204,658
1924	2,981,740,392	3,048,913,490	3,025,335,306
1925 Decrease	35,258,408	131,313,288	210,130,648

The Southern Pine Association reports from New Orleans

that for the 134 reporting mills, shipments were 0.32 per cent above production, while orders were 7.38 per cent below production and 13.33 per cent below shipments for last week. Of the 86 mills reporting running time, 74 operated full time, including 19 on overtime, 10 of the latter on double shift. Four mills were shut down and the rest operated from one to five days.

The North Carolina Pine Association of Norfolk, Va., reports marked decreases in all three factors.

Building Officials to Meet at Madison.

The twenty-fifth convention of the Building Officers' Conference will be held in Madison, Wis., April 20 to 24. Madison was chosen because the Forest Products Laboratory of the United States Forest Service there is now conducting various researches of great importance to building officials.

Papers will be presented as follows: Charles P. Winslow will discuss "American Lumber Standards," John A. Newlin will read a paper, "Strength of Timber," and C. J. Humphrey will present a paper on "Nature of Decay in Timber."

Important tests will be conducted at the laboratory during the week.

\$250,000 Mill to Replace Burned Plant.

A \$250,000 lumber mill to replace the burned plant at Deweyville, Texas, of the Peavey-Moore Lumber Co., Inc., Shreveport, La., is under construction. Discussing the new plant, the company wires the MANUFACTURERS RECORD that it will be equipped with two double-cutting band rigs and a gang, all machinery to be furnished through the Lufkin Foundry & Machinery Co. of Lufkin, Texas.

Equipment will consist of Diamond band mills, Wickes gang, and engines made by the Houston, Stanwood & Gamble Co., Cincinnati. Fred L. Burdette is the construction engineer in charge. The company expects to complete the building within 90 days.

Plans for curtailment of operations by Gaston County Textile Mills, Charlotte, N. C., set for April 10, have been abandoned temporarily, it is said, because of new orders which justify continued operations on a full-time basis.

LUMBER MOVEMENT FOR THIRTEEN WEEKS, AND FOR THE WEEK ENDING MARCH 28

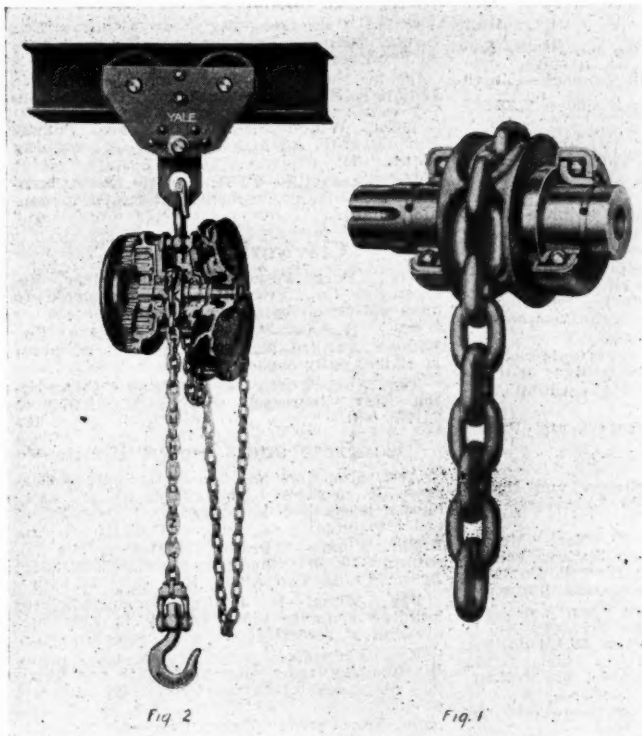
	Production		Shipments		Orders	
	1925	1924	1925	1924	1925	1924
Southern Pine Association:						
Total	998,434,443	970,566,430	936,900,905	957,702,179	925,312,092	945,259,263
Week (134 mills)	79,299,078	78,539,329	79,553,914	76,203,540	73,447,208	74,135,040
West Coast Lumbermen's Association:						
Total	1,264,349,106	1,300,272,632	1,265,408,952	1,302,245,419	1,239,033,754	1,257,539,141
Week (123 mills)	103,656,844	97,815,443	111,750,895	106,172,572	121,790,884	89,766,194
Western Pine Manufacturers' Ass'n:						
Total	271,411,000	325,004,000	338,397,000	403,726,000	315,673,000	420,844,000
Week (35 mills)	29,073,000	32,290,000	26,680,000	26,226,000	29,774,000	21,875,000
California Redwood Association:						
Total	104,296,000	111,024,000	91,182,000	97,536,000	93,550,000	102,097,000
Week (15 mills)	8,023,000	9,356,000	7,244,000	8,819,000	8,392,000	10,293,000
North Carolina Pine Association:						
Total	101,418,435	97,978,830	102,690,645	98,186,592	84,543,812	94,109,902
Week (44 mills)	9,325,137	8,427,773	9,612,830	7,016,115	5,376,875	4,659,085
Northern Hemlock and Hardwood:						
(Softwood) total	42,392,000	25,406,000	32,088,000	29,249,000	24,166,000	25,955,000
Week (17 mills)	2,936,000	775,000	1,766,000	1,845,000	1,231,000	1,674,000
Northern Pine Manufacturers' Ass'n:						
Total	82,858,000	84,395,500	103,220,700	112,867,300	96,228,000	128,594,000
Week (8 mills)	8,340,600	6,279,800	6,959,000	9,625,700	6,642,000	13,113,000
General total for 13 weeks	2,865,158,984	2,914,647,392	2,869,888,202	3,001,512,490	2,778,506,658	2,974,398,306
Northern Hemlock and Hardwood:						
(Hardwood) (13 weeks)	81,323,000	67,093,000	47,712,000	47,401,000	36,698,000	50,937,000
California White and Sugar Pine:						
Total	106,120,000*	101,405,000*	207,471,000*	187,424,000*	190,362,000*	.....
Week (10 mills)	10,950,000	11,535,000*	9,671,000	13,234,000*	10,944,000	*13,532,000
General total for week	245,095,659	237,895,345	245,620,639	239,352,927	247,987,967	217,350,319

*Revised figures not included in general totals. Represents about 75 per cent total production California pine region.

MECHANICAL

Chain Blocks With Ball Bearings.

Chain blocks are one of the most universally used forms of hand-hoisting devices. This is largely because of their high mechanical efficiency, load-sustaining brake and the fact that they are not easily injured by weather, heat or chemical fumes. A chain block is often used in emergencies, when something has broken down, or when some piece of machinery or other load must be put in place on short notice, and when a chain block is used in this way it is frequently



MECHANISM OF CHAIN BLOCK.

required to stand certain overloads, and not infrequently surge loads, which occur when the load slips in the sling chain, swings off a platform, or in line with its center of gravity. This is a rather common experience, and the breaking of a single link of load chain under these conditions would be disastrous. Surge loads often put a momentary overload on a chain block amounting to a great deal more than its rated capacity.

One of the latest developments in chain blocks is the use of large-sized ball bearings to support the load sheave as shown in Figure 1. This block is just being put on the market by the Yale & Towne Manufacturing Co. of Stamford, Conn., and interesting and important claims are made for its high mechanical efficiency, which results principally from the use of chrome vanadium-steel ball bearings of large dimensions. Figure 2 shows a sectional view of the block and the location of the massive steel load sheave carried on two ball bearings, each containing vanadium-steel balls. Top hook, crosshead, suspension plates, load sheave, electrically welded load chain, detachable shackle, bottom cross-head and hook are all of steel, so that the load hangs on a line of steel from hook to hook. Mechanical efficiency has, it is stated, been increased over 6 per cent by these ball bearings where they carry the full load.

To show the strength of these blocks a one-ton load was lifted 25 inches and was then dropped, taking up 25 inches

of slack in the load chain and subjecting the whole working mechanism to a surge resulting from the force of one ton dropping that distance and being brought to a sudden stop or jerk, but it is asserted neither the ball bearings nor the gears or other working parts show any signs of strain from the test. It is further stated that the load chain, which is made to stretch before breaking, stretched nearly six inches in a length of three feet without fracture.

To Extract Bromine from Sea Water.

As a step in a movement to reduce a world shortage of bromine, which threatens to hit both industry and science, the steamship Ethyl, equipped as a complete chemical plant, is scheduled to sail on April 15 from Wilmington, Del., to search of the seas for this raw material, which is called essential to medicine, to motion pictures, to photography and to the ethyl fluid of motor fuel. The ship has been refitted as a factory for recovering bromine from sea water.

Chemical experts who are members of the American Chemical Society estimate that 1700 gallons of sea water contain one pound of bromine. Hence, it is the Ethyl's mission to remove this seven one-thousandths of 1 per cent of bromine in the sea water, with which it is planned to refill the world's bromine storehouses, emptied by the rapid development of ethyl gasoline in automobile operation.

A. M. Maxwell, vice-president of the Ethyl Gasoline Corporation, New York, owners of the vessel, says an entirely new process of bromine extraction would be employed. This process is expected to yield on the Ethyl 100,000 pounds of bromine a month. To produce this quantity the Ethyl will draw aboard 7000 gallons of sea water a minute.

"The voyage," states Mr. Maxwell, "is an experiment unique in both chemical manufacture and commercial navigation. The success of this venture may give an entirely new aspect to the manufacture of bromine, which heretofore has been laboriously recovered from mineral springs and from the potash deposits of Germany."

Potash Production in the United States.

In 1924, the Geological Survey reports, potash producers in the United States had an output amounting to 43,719 tons of crude potash salts, containing 22,896 tons of potash. The amount sold was 37,492 tons of crude potash, containing 21,880 tons of refined potash, valued at \$842,618.

Potash production in the United States in 1923 amounted to 39,029 tons of crude potash, of which Maryland contributed 6700 tons. As 748,525 tons of crude potash was imported in 1923, the importance of developing the industry in this country is apparent, especially as 90 per cent of our imports enter into agriculture and the balance into chemical industries vital to the nation's welfare. All of our potash production is a by-product of 12 companies. Favorable conditions for a natural supply of potash in this country are said to be disclosed in the discoveries in western Texas. The Geological Survey reports that many similarities in geologic conditions exist between the potash disclosed in the well-cuttings of western Texas and the potash-bearing fields of Germany and Alsace. With the development of the demand for fertilizers, which will come sooner or later from the middle Western grain-producing states, the Texas potash would be a most favorable situation.

Completing Rowan County Creamery.

Salisbury, N. C.—Machinery for the Rowan County Creamery, being erected here by T. M. Hines and C. W. Isenhour of this city, has arrived and is being installed under the supervision of R. G. Vaughn, representative of the Creamery Package Co., Chicago. The new plant is expected to be ready for operation within a few days.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.
An asterisk (*) following an item indicates that the enterprise has been reported in a preceding issue.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Airplane Plants, Stations, Etc.

Mo., Springfield—Ben J. Harrison, 837 N. Grant St., and associates interested in establishing aeroplane landing field on Division St. road; plans include erection of hangars, filling stations, cottages for aviators, etc.

Bridges, Culverts and Viaducts

Alabama—State Highway Comm., Montgomery, will build 2 bridges. See Road and Street Construction.

Fla., Fort Pierce—See Water Works.

Fla., Milton—Santa Rosa County Comms. receive bids Apr. 14 to repair 2 bridges: East of Molino in Escambia Swamp; Coldwater bridge.

Fla., St. Augustine—City let contract to P. T. Cox Contracting Co., 154 Nassau St., New York, at \$609,642.75 for bridge across Matanzas River, subject to approval of J. E. Greiner, Const. Engr., Lexington Bldg., Baltimore; this is first important move which makes possible building of proposed ocean boulevard from St. Augustine along ocean front to Daytona, for which bonds have been issued by communities through which this important project will extend.*

Fla., Tampa—See Land Development.

Fla., West Palm Beach—Everglades Drainage Board granted permission Conners Highway to construct steel draw bridge across St. Lucie Canal at Lake Okeechobee.

Georgia—State Highway Dept., East Point, will build 2 bridges and approaches. See Road and Street Construction.

Ga., Moultrie—Board of Comms. of Roads and Revenues of Colquitt County receives bids Apr. 30 for 4 concrete drainage structures on following roads: Moultrie-Meigs road, 72,405 lbs. reinforcing steel; Moultrie-Chastine, 69,491 lbs. reinforcing steel; Moultrie-Norman Park, 16,247 lbs. reinforcing steel; Berlin-Ellenton, 14,100 lbs. reinforcing steel; plans on file and from Caye-Andrews Co., Inc., Engrs., Americus.

Ky., Danville—Boyle Fiscal Court plans expending \$12,000 to build 2 bridges west of Perryville. Address County Comms.

La., Lake Charles—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, received bids in about 30 days for approach on Louisiana side of bridge over Sabine River, cost \$300,000 to \$500,000; Wm. B. Robert, State Highway Engr.

La., Marksville—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, receives bids April 28 to repair bridge over Bayou DeLac on Bunkie-Marksville Highway, 8000 ft. creosoted lumber, 3000 ft. untreated lumber; plans on file; W. B. Robert, State Highway Engr.

La., New Orleans—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, will re-low bid from Vincennes Bridge Co., Vincennes, Ind., at \$119,008, for West Pearl River bridge on Old Spanish Trail east of New Orleans.

Md., Baltimore—Board of Awards let contract to B. F. Johnson Construction Co., Inc., Fidelity Bldg., at \$62,600, for bridge at intersection of Rogers Ave. and Western Maryland R. R.*

Md., Baltimore—See Road and Street Construction.

Md., Baltimore—City plans concrete viaduct to link Falls Road and South Ave., Mount Washington; Howard W. Jackson, Mayor; Stuart Purcell, Ch. Engr.

Mo., Springfield—Greene County Court plans bridge over Wilson Creek on Brookline-Battlefield Highway. Address County Comms.

Mo., Cape Girardeau—State Highway Dept., Jefferson City, plans steel and concrete viaduct over Frisco R. R. track on Highway No. 9, southeast of Cape Girardeau, approximate cost \$50,000.

Oklahoma—State Highway Dept., Oklahoma City, will build 4 bridges. See Road and Street Construction.

Okl., Mountain View—J. W. Mann Construction Co., Oklahoma City, received contract for 500-ft. trestle in connection with bridge under construction 1 mi. north of Mountain View; total cost \$37,000.

Okl., Oklahoma City—Oklahoma County, W. A. Jackson, Clk., receives bids this week to construct 7 concrete and steel bridges in county; plans on file.

S. C., Walterboro—Colleton County Highway Comm. receives bids this week for bridges on Smoaks to Bamberg line road.

Tenn., Chattanooga—Richard B. Randolph, Supt. of Chattanooga & Chickamauga National Parks, interested in widening automobile bridge on Missionary Ridge, near intersection of old Bird's Mill and Crest road.

Tenn., Knoxville—City contemplates viaduct over Oak St. to replace bridge; contemplates bond issue; A. D. Albright, Chmn. Viaduct Committee.

Tennessee—Dept. of Highways and Public Works, Nashville, let contract for 7 bridges. See Road and Street Construction.

Tennessee—Dept. of Highways and Public Works, Nashville, will build 3 bridges. See Road and Street Construction.

Tex., Austin—City, W. D. Yett, Mayor, plans 200-ft. concrete Barton Springs bridge, approximate cost \$25,000; Terrell Bartlett, Engineers, San Antonio, preparing plans.*

Tex., Franklin—Robertson County receives bids May 2 for .23 mi. State Highway No. 6, overpass and graded approach, 36,474 cu. yd. borrow, 42,634 lbs. reinforcing steel; L. A. Peterman, County Engr.; Joe Y. McNutt, County Judge.

Tex., Houston—Comms. of Drainage Dist. No. 2 receives bids April 21 for Bridge No. 3 over drainage ditch near Mykawa; plans from H. L. Washburn, County Auditor.

Tex., San Antonio—City, John W. Tobin, Mayor, receives bids about June 1 for steel and reinforced concrete bridge across San Antonio River at Fourth St.; I. Ewig, City Engr.; Terrell Bartlett Engineers, 612 Calcasieu Bldg., preparing plans.*

Tex., Sweetwater—Nolan County received low bids for 8 bridges. See Road and Street Construction.

Tex., Waco—McLennan County receives bids Apr. 27 for steel bridge on Bosque at Eichelberger's Crossing, 152-ft. span, two 60-ft. spans, timber approaches, estimated cost \$15,000; Manton Hannah, County Engr.

Tex., Waxahachie—State Highway Dept., Austin, Tex., approved building 3 bridges. See Road and Street Construction.

Virginia—See Road and Street Construction.

W. Va., Huntington—Huntington & Ohio Bridge Co., C. L. Ritter, Pres., Ritter Bldg., received low bid from General Construction Co., Pittsburgh, at \$241,620, to construct concrete piers for bridge across Ohio River between Huntington and Chesapeake, Ohio; from Mount Vernon Bridge Co., Mount Vernon, Ohio, at \$550,788 for steel structure.

Canning and Packing Plants

Ala., Mobile—Dixie Packing Co., Neeley's Station, increased capital, \$100,000 to \$200,000.

Ark., Hot Springs—Garland County Canning Co. will construct canning plant.

Fla., Ellenton—T. L. Whittle, Charles F. Tatum reported interested in establishment of cannery.

Miss., Hazlehurst—Hazlehurst Business Men's Club interested in establishment of canning plant.

Mo., Ritchey—J. J. Jack of Bank of Ritchey, interested in canning plant.

Okl., Okmulgee—Big Star Canning Co., capital \$30,000; incorporated; R. A. Adams, A. Prudom.

Tenn., Columbia—Van Camp Packing Co., Indianapolis, reported interested in establishing cannery.

Tenn., Winchester—J. D. Moore, County Agricultural Agent, interested in canning plant.

Va., Greenville—F. H. Lovette, Sec. Chamber of Commerce, reported interested in canning plant.

Clayworking Plants

Ala., Fort Payne—Harbison-Walker Refractories Co., Pittsburgh, Pa., reported to have option on bauxite clay mine.

Fla., Bartow—Seward Construction Co., Louis P. Seward, Mgr., will install brick plant of 12,000 daily capacity.

Tex., Fort Worth—Acme Brick Co., Anderson Bldg., increased capital, \$1,050,000 to \$1,750,000.

Concrete and Cement Plants

Ark., Hot Springs—The Hot Springs Concrete Co., organized by L. T. Smith and associates; specialize in sidewalks, ready mixed concrete, etc.

Fla., Miami—Consolidated Block & Tile Co., capital \$100,000, incorporated; Cecil B. Seay, Pres.; Frank Van Alden, Sec.

Fla., Miami—S. J. Cantor contemplates building concrete block factory in new subdivision of Sweetwater.

Ky., Paducah—Lacey Peyton of Benton, Ill., has acquired property at Sixth and Trimble St.; will establish block and concrete plant.

W. Va., Ceredo—Union Concrete Pipe Co., capital \$200,000, subsidiary of the Union Sand and Gravel Co., G. W. Sullivan, Sec., will erect \$100,000 plant, install most modern machinery.

Coal Mines and Coke Ovens

Ark., Paris—Watson & Sons acquired Arhal Kirkpatrick coal mine; will develop.

Va., Richmond—West Virginia Coal Co. has absorbed interests of the M. M. Tyree Coal Co.; will develop.

W. Va., Beckley—Gauley Mountain Coal Co., Ansted, W. Va., Geo. B. Agnew, Pres., 22 William St., New York, reported to have acquired 5000 acres coal land; propose to develop property by sinking 740-ft. shaft; probably lay about 5 mi. railway.

Cotton Compress and Gins

Miss., Murphy—Murphy Gin Co., capital \$15,000, incorporated; J. W. Jordan, C. E. Barrett.

Okl., Cushing—A. L. Sullivan, Muskogee, has site, will erect cotton gin.

Okl., Frederick—S. D. Mitchell Gin Co., capital \$20,000, incorporated; S. D. Mitchell, J. F. Taylor.

S. C., Greenwood—Gresco Oil Co. has building and will install ginning plant.

Tenn., Memphis—Central Gin Co., capital \$100,000, incorporated; Ed Cornish, Cotton Ex. Bldg., E. Rice.

Tex., Rule—Farmers District Gin Assn. increased capital, \$8000 to \$15,000.

Tex., Paris—Williams Gin Co., capital \$16,000, incorporated; J. W. Williams, S. M. Hearon.

Tex., Stanton—Hamilton Gin Co., H. Hamilton, Pres., is erecting five 80 saw gin plant at Midland; iron clad with steel frame; 22x80 ft. building, 20x22 ft. engine building, 22x30 ft. seed house; concrete floors, sheet

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

iron roof; G. H. Storey, Constr. Engr.; equipment not purchased.*

Tex., Taylor—Farmers' Gin Co. acquired gin; E. B. Martin, Mgr.

Cottonseed-Oil Mills

Miss., Yazoo City—J. O. Ashworth of Kosciusko, Miss., will install packers and other equipment in oil mill.

Drainage and Irrigation

Fla., Fort Pierce—See Land Development.

Fla., Winter Haven—Taylor-Alexander Co., J. S. Alexander, Sec., reported, let contract to Otis A. Harden of Sebring at \$50,000 for drainage system, protecting banana plantation.

Electric Light and Power Plants

Ala., Birmingham—Birmingham Electric Co. reported to have acquired tract of land near Tarrant City for probable development.

Ala., Birmingham—See Land Development.

Ala., Haleyville—Town Council recently acquired 16 acres of land and contemplate purchase of about 5000 ft. of cast-iron water mains and 20-h. p. motor-driven pump in connection with development of water facilities.*

Ala., Silverhill—Silver Hill Light Co. petitioned Alabama Public Service Commission, Montgomery, for permission to construct transmission line from Silver Hill to Roberts-dale.

Ala., Sylacauga—See Road and Street Construction.

Ala., Tuscaloosa—See Foundry & Machine Plants.

Fla., Babson Park—See Land Development.

Fla., Davenport—City voted \$10,000 electric light bonds; install white way system. Address The Mayor.

Florida—Electric Bond & Share Co., 71 Broadway, New York city, plans large expenditure during 1925 on properties acquired during 1924, including following companies: Southern Utilities Co., Daytona Public Service Co., Miami Electric Light & Power Co., and Miami Water Co., operating in Miami, Miami Beach, St. Augustine, Palatka, Sanford, Bradenton, Palm Beach, West Palm Beach and Daytona; work includes installation of electric generating and gas generating capacity, building modern electric sub-station and extension of electric transmission lines and gas mains.

Fla., Fort Pierce—See Land Development.

Fla., Goulds—See Land Development.

Fla., Homestead—Redlands Ice, Power and Light Co. applied to County Commrs. for franchise to erect poles and construct 30-mile power line.

Fla., Lakeland—City, Anton Schneider, Mgr., receives bids April 16 for additions to power plant. (See Machinery Wanted—Power Plant.)

Fla., Kissimmee—Florida Public Service Co., operated by W. S. Barstow Management Assn., Inc., 50 Pine St., New York, will probably acquire city lighting system; extend transmission lines.

Fla., Miami—See Land Development.

Fla., Palmetto—See Road and Street Construction.

Fla., Pensacola—See Land Development.

Fla., Sarasota—City votes May 7 on \$350,000 bonds for enlarging and reconstructing electric light plant; will also grant gas franchise. Address Mayor Bacon.

Fla., Sebring—See Land Development.

Fla., Tampa—See Land Development.

Ga., Atlanta—See Land Development.

Ga., Dublin—Southern Utilities Corp., Washington, reported to have acquired city's electric light and power plant.*

Ga., Macon—East Georgia Power Co. (Subsidiary of Georgia Railway and Power Co.), capital \$1,100,000, incorporated; H. M. Atkinson, P. S. Arkwright; construct transmission line from Toccoa to Stephens Creek near Augusta to link up hydro-electric system of Georgia Railway and Power Co. with Georgia-Carolina Power Co.; 112 miles long; cost \$1,110,000.*

Ky., Lewisport—J. A. Byrd of Kentucky Utilities Co., M. E. T. Bldg., Louisville, reported to acquire electric light plant, including franchise, in Cloverport, Tobinsport, Tell City and Cannelton.

La., Port Allen—Baton Rouge Electric Co., Baton Rouge, will extend transmission line.

La., Summer Grove—Summer Grove Utility Co., capital \$12,000, incorporated; J. P. Wilkinson, Pres.; G. T. Gibbs, Sec.

Miss., Grenada—Mississippi Power & Light Co., Jackson, acquired municipal power plant.

Miss., Natchez—City granted 10-year franchise to Southern Railway & Light Co.; will install white way system; Henry A. Mentz, Consult. Engrs., Magnolia.

Mo., Columbia—See Land Development.

Mo., Trenton—Trenton Gas and Electric Co. plan addition to electric light plant and gas plant, install gas mains.

N. C., Brevard—See Land Development.

N. C., Charlotte—Southern Public Utilities Co., is remodeling Elizabeth transformer station, cost \$50,000; work under direction of F. W. Lechlotte, Engr., Southern Power Co.

N. C., Hendersonville—Blue Ridge Power Co., Spartanburg, S. C., has 10-year contract for furnishing lighting power, install system on Main St.; sub-contract let to General Electric Co., Schenectady, N. Y.

N. C., High Point—See Land Development.

N. C., Lincolnton—Barkley-Keener Electric Co., capital \$15,000, incorporated; Frank Barkley, P. M. Keener.

N. C., Mount Airy—See Water Works.

Okla., Tulsa—See Land Development.

S. C., Spartanburg—Manufacturers Power Co. increased capital to \$1,000,000.*

S. C., York—Town will vote April 20 on sale of plant to Southern Public Utilities Co.*

Tenn., Chattanooga—See Land Development.

Tenn., Humboldt—See Water Works.

Tenn., McMinnville—Tennessee Electric Power Co., Hamilton National Bank Bldg., Chattanooga, reported to have acquired Walling Light and Power Co.'s light and power plant and flour mill; also reported to construct transmission line from plant at Rock Island to McMinnville.

Tenn., Millington—State Railroad and Public Utilities Comsn., Nashville, approved franchise granted to Memphis Power & Light Co., Memphis.

Tenn., Nashville—See Land Development.

Tenn., Oneida—State Railroad and Public Utilities Comsn., Nashville, approved purchase by Tennessee Electric Co., Hamilton Bank Bldg., Chattanooga, of electric light plant; will extend system.

Tex., Beaumont—Eastern Texas Electric Co., 362 Liberty Ave., contracted to supply light and power to plants of Western Public Service Co. at Sour Lake, Liberty, Dayton, Saratoga, Cleveland, Conroe, Huntsville, Navasota and other intermediate towns; reported to expend \$1,500,000 in construction and enlargements of power facilities.

Tex., Big Lake—Big Lake Utilities Co., A. S. Cochran, Pres., has under construction electric light and power plant; metal, 36x50 ft., concrete floors; Fairbanks, Morse & Co., Chicago, Ill., will furnish equipment.*

Tex., El Paso—El Paso Electric Railway Co. will construct 2300 volt electric transmission line.

Tex., Gainesville—City Council rejected bids for white way; will call for new bids.

Tex., Lockhart—Texas Light and Power Co., Dallas, acquired plant of Citizens Water and Light Co.; will be granted franchise by city.

Va., Bedford—City votes April 11 on \$100,000 bonds for improvements to electric plant on James River.

Va., Lawrenceville—Town is installing white way system on Main St. Address Town Council.

Va., Richmond—Virginia Railway & Power Co., Norfolk, reported to expend \$2,000,000 during 1925 on improvements and extension; construct 3 automatic sub stations; hydro-electric generating station; construction of 110,000 volt transmission line between Suffolk and Roanoke Rapids, etc.

Va., South Boston—See Land Development.

Flour, Feed and Meal Mills

Ga., Macon—Macon Flour and Feed Co., capital \$10,000, incorporated; J. H. Crawley, Sr., 119 Piedmont Ave.; R. L. Crawley, Sr.

Okla., Grove—W. E. Jones, John T. Oakley interested in erection of mill and elevator.

Tex., Dallas—Lawther Grain Co., incorporated; W. J. Lawther, 2545 Elm St.; I. A. Frigge.

Foundry and Machine Plans

Ala., Birmingham—P. E. Wier of Memphis, Tenn., contemplates building plant to manufacture cotton chopper, recently invented.

Ala., Tuscaloosa—Alabama Power Co., Bir-

mingham, reported, let contract to Dixie Construction Co., Brown-Marx Bldg., Birmingham, for building on Fourth St., to be used for machine shop, repair shop, rooms for installation of electric control equipment, etc.; 55x110-ft., brick and concrete with steel roof; building and equipment; cost approximately \$75,000.

Md., Baltimore—Martin J. Heller, Inc., capital 2801 W. Lafayette Ave., chartered; Martin J. Heller, John J. Blocher.

Mo., St. Louis—Hall & Brown Woodworking Machine Co., Broadway and Tyler, let contract to W. H. Schulte, 2603 Cass St., for \$10,000 building at 1933 N. Broadway; 2-story, 31x80-ft., composition roof.

Tenn., Chattanooga—Walsh & Weldner Boiler Co., Main and Scymr. St., reported, expend between \$75,000 and \$100,000 on plant improvements, including 1-story, 60x80-ft. addition to machine shop and 90x100-ft. addition to sheet iron shop, both steel construction.

Gas and Oil Enterprises

Ala., Mobile—Mobile Oil and Export Co., 301 St. Francis St., capital \$10,000, incorporated; Bert R. Sherman, A. C. Sherman.

Fla., Sarasota—See Electric Light and Power Plants.

Ga., Atlanta—Fulton County Commrs. plan erection of \$20,000 gasoline storage tank at Bellwood camp; C. M. Holland, Pur. Agt.

La., Monroe—Reynolds Oil Co., incorporated; R. R. Reynolds, N. 3d St., Geo. Gunby.

La., Ruston—J. H. Thatcher will be interested in forming company for gas distribution system.

Mo., Columbia—See Land Development.

Mo., Joplin—Henry L. Doherty & Co., 414 Joplin St., appointed B. C. Adams, Gen. Mgr. of company to take over number of gas distributing companies in Missouri.

Mo., Trenton—See Electric Light and Power Plants.

N. C., Goldsboro—Goldsboro Gas Co., capital \$150,000, incorporated; Stephen C. Bragg, J. L. Warren, both Washington.

N. C., Stoneville—Robertson Oil Co., Leaksville, will establish oil plant.

Okla., Bartlesville—City votes April 7 on granting franchise to Bartlesville Gas and Electric Co.

Okla., Tulsa—Klester-Barber Drilling Co., capital \$50,000, incorporated; Wm. Barber, J. T. Klester, 1533 S. Detroit St.

S. C., Neeses—Neeses Oil Co., capital \$10,000, incorporated; E. N. Hartzog, Pres., Denmark; N. B. Whittle, Sec.

Tenn., Chattanooga—Chattanooga Gas Co., A. J. Goss, Mgr., granted franchise, will extend mains.

Tex., Austin—York's Creek Oil Co., capital \$50,000, incorporated; J. B. Pope, Littlefield Bldg.; W. M. Graham.

Tex., Comanche—Mon Tex Corporation, Fort Worth, will construct natural gas pipe line, distance of 22 miles; \$50,000 bond issue available for gas distribution system.

Tex., Galveston—Oleander Oil Co., capital \$10,000, incorporated, J. K. Sullivan, Charles Paggi.

Tex., San Antonio—E and K Pipe Line Co., capital \$10,000, incorporated; George E. Eggleston, J. B. Jarmon.

W. Va., Charleston—Greenbrier Oil and Gas Co. increased capital, \$25,000 to \$100,000.

W. Va., Huntington—R and P Gas Co., Robson-Prichard Bldg., capital \$50,000, incorporated; Fred C. Prichard, H. A. Robson.

Ice and Cold-Storage Plants

Mo., Osceola—W. E. Bodine of Humansville will erect 6-ton ice plant.

N. C., Asheville—Refrigeration & Supply, Inc., capital \$50,000, chartered; O. N. Gillett, 189 Chestnut St.; E. F. Jeffries.

N. C., Benson—Alfred Parker will erect ice plant.

S. C., Anderson—The Due West Oil Mill, M. Haltiwanger, Mgr., will install 9 ton daily capacity ice plant to present equipment.

S. C., Greenville—Greenville Ice & Fuel Co., Cox St., let contract to The Gallivan Building Co., W. Washington St., for erection of 100-ton capacity ice plant; to the Morgan-Barr Electric Co., Greenville, for electrical installation.*

Tenn., Sweetwater—Sweetwater Ice & Fuel Co., capital \$30,000, incorporated; Ewing Wilder, Grason A. Bailey.

Tex., Dallas—Simplex Ice Co., will erect \$10,000 ice factory at 1100 Fitzhugh St., brick.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Goose Creek—The Goose Creek Ice Co., plans increasing storage space.

Tex., Sweetwater—West Texas Utilities Co. will erect \$18,000 ice and cold storage plant; also office; 2-story, brick and concrete.

Va., Norton—Kentucky Utilities Co. interests, R. W. Watt, Dist. Mgr., Pineville, Ky., reported acquired stock of the Norton Ice and Cold Storage Co.'s plants at Norton and Appalachia; will operate.

W. Va., Huntington—J. H. McCoach & Co., 1301 7th Ave., S. P. Hager, Pres., will erect \$250,000 cold storage plant corner Seventh and Thirteenth Sts., adjoining present building; 6-story and basement, 116x136-ft., reinforced concrete, fireproof; storage capacity 100,000 bu. apples; capacity of present plant 30,000 bu.; H. Zeigler Dietz, Archt., Indianapolis, Ind.

Land Development

Ala., Birmingham—W. E. Mosely, Pres., Imperial Candy Co., 1628 1st Ave. N., will develop subdivision.

Ala., Birmingham—Estes Realty Co., incorporated; Claude H. Estes, Frank E. Spain.

Ala., Birmingham—A. M. Grimsley, Fayette, acquired 53 acres and will develop subdivision; construct roads and streets, install water, sewers, electric lights.

Ala., Birmingham—Fairfield First Addition, Charles J. Donald, Pres., 4611 Gary Ave., let contract at \$150,000 for paving and streets in subdivision; will install gas, sewers.*

Ala., Huntsville—Huntsville Realty Co., capital \$100,000, incorporated; W. C. Hutchens, V. F. Hutchens.

Ala., Huntsville—Huntsville Land Co., capital \$100,000, incorporated; T. T. Terry, W. T. Hutchens.

Ark., Fayetteville—H. J. Platt, Newkirk, Okla., reported interested in development of 344 acres of land for park, including lake, hotel, swimming pool and golf course.

Ark., Fayetteville—Mount Sequoyah Country Club, J. L. Bond, will develop golf course, construct lake and dam; Emmett Radcliffe, Engr.

Fla., Appalachicola—W. L. Lewis, representing Miami and Jacksonville capitalists acquired 10,000 acres of land, will develop.

Fla., Avon Park—Istokpoga Banana Plantation Co., capital \$100,000, incorporated S. F. Durrance, Pres.; Giles J. Patterson, Sec.

Fla., Babson Park—H. W. Bennett & Co., Boston and New York, acquired tract of land on Lake Caloosa; develop sub-division; develop 6 miles of shore front, dredge, install water, sewer, roads and streets, electric lights.

Fla., Babson Park—Kissimmee Beach Land Co., capital \$150,000, incorporated; Roger W. Babson, Pres.; W. L. Webber, Sec.

Fla., Dade City—Pasco-Palm Beach Land Co., capital \$500,000, incorporated; Lorenza Garland Biggers, Pres., W. A. McRae, V. P.; acquired 17,345 acres in Pasco County; develop for 3 townships, citrus nursery and make other improvements.

Fla., Daytona Beach—Mason Terrace Corp., Corp., chartered; R. L. Selden, Pres., 123 N. Atlantic Ave., D. B.; Joseph Scher, Sec.

Fla., Daytona—G. A. Wilson acquired tract of 160 acres, develop subdivision.

Fla., Dania—Dania Hills Land and Development Co., capital \$50,000, incorporated; Matthew Slush, Pres.; Irving Bemst, Sec.

Fla., DeLand—Sunshine Realty Co., Jacksonville, acquired 5000 acres in West Volusia County; develop subdivision.

Fla., Dunnellon—Garden Homes of Dunnellon reported to have acquired 1080 acres; develop sub-division; 18-hole golf course.

Fla., Fort Lauderdale—C. G. Rodes acquired 15 acres of waterfront land; develop additional subdivision.

Fla., Fort Pierce—R. W. Lookabill, Indianapolis, W. E. Traub, Fort Pierce, acquired 200 acres land will develop subdivision.

Fla., Fort Pierce—National Gardens Co., capital \$200,000, incorporated; W. W. Sterling, Pres.; J. G. Wallace, Sec.; develop tract of farm and timber land bordering on Florida East Coast R. R. and taking in town of Harwood.

Fla., Fort Pierce—Koblegard Realty Corp. is developing Pinewood sub-division; will install hard-surfaced streets, sidewalks, water, sewer and lights.

Fla., Fort Pierce—Phelps-Hendrickson Co., Inc., 22 W. Monroe St., Chicago, Ill., C. O. Reynolds, Pres., advises that plans for development of approximately 27,000 acres acquired near Fort Pierce, include the building of a town, including boulevards, avenues, streets, parks, golf course; Wm. G. Krieg, City

Archt., 105 N. Clark St., Chicago, and associates have charge of this work; no contracts have been let and development is yet in preliminary stages; agricultural land is practically ready for sale; portion of it is already drained; drainage bond issue of \$500,000 recently sold to Caldwell, Mosser & Williams, 20 S. La Salle St., Chicago; contract for work let to Canal Construction Co., Melbourne.*

Fla., Goulds—Sanford & Carver will develop Silver Palm Park, subdivision; will construct roads and streets; install water, sewers, electric lights.

Fla., Homestead—Walker-Smith Realty Co., capital \$25,000, incorporated; A. R. Walker, Pres.; J. M. Walker, Sec.

Fla., Jacksonville—Howard Properties, Inc., capital \$100,000, incorporated; Lawrence W. Howard, Pres.; George H. Howard, Sec.

Fla., Jacksonville—Heaney Realty Corp., capital \$10,000, incorporated; James B. Heaney, Pres.; C. A. Stephens, Sec.

Fla., Jacksonville—J. S. and B. C. Buck reported to have acquired 5000 acres of land on St. Johns River, near Mandarin.

Fla., Miami—Miami Acreage Corp., incorporated; Ray L. Parker, Pres., 452 N. E. 30th St.; E. M. Mattis, Sec.

Fla., Miami—Owen Land Co., capital \$100,000, incorporated; R. A. Owen, Pres., 1020 Washington Ave., M. B.; R. B. Owen, Sec.

Fla., Miami—East Shenandoah Co., capital \$500,000, incorporated; Lester B. Manley, Pres.; George H. Fuller, Sec., 305 N. W. 12th Ave.

Fla., Miami—Irons Land & Development Co. acquired additional tract of 10 acres; develop annex to Iron Manor sub-division.

Fla., Miami—New Haven Realty Co., capital \$10,000, incorporated; Barnett Berman, Pres., H. Reynold Sampson, Sec., 204 Lawyers Bldg.

Fla., Miami—Eli Wagner Properties, Inc., capital \$100,000, incorporated; Alfreda Wagner, Pres.; John Ray Johnson, Sec.

Fla., Miami—Burbank Realty Co., capital \$100,000, incorporated; M. S. Burbank, Pres.; 714 Bourkell Ave., M. W. Hallam, Sec.

Fla., Miami—Atlantic Realty & Securities Co., capital \$50,000, incorporated; C. E. Holcomb, Pres.; J. E. Shuey, Sec.

Fla., Miami—Public Development Co., capital \$100,000, incorporated; George A. Rubin, Pres.; Louis L. Becker, Sec.

Fla., Miami—Johns' Island Corp., capital \$50,000, incorporated; John T. Waldhauser, Pres.; Godfrey Shimheiser, Sec.

Fla., Miami—White Realty Co., capital Co., capital \$10,000, incorporated; H. N. Waite, Pres.; L. C. Hickey, Sec.

Fla., Miami—Harry Levitt acquired 320 acres of land on Tamiami Trail.

Fla., Miami—Silverstone Realty Co., capital \$10,000, incorporated; Louis Silverstone; Pres.; Katherine S. Caplan, Sec.

Fla., Miami—Home Builders Realty Corp., capital \$500,000, incorporated; A. C. Cannors, Pres.; J. B. Courice, Sec.

Fla., Miami—Coral Groves, capital \$10,000, incorporated; F. A. Bamaby, Pres.; H. G. Curran, Jr., Sec.

Fla., Miami—Sixth Street Realty Co., capital \$10,000, incorporated; Meyer Bernstein, Pres.; Aron Mintz, Sec.

Fla., Miami—Flagler Street Realty Co., incorporated; E. L. Phillips, Pres.; G. C. Phillips, Sec.

Fla., Miami—Semi-Tropic Realty Co., incorporated; Z. M. Dodge, Pres.; J. V. Wagner, Secretary.

Fla., Miami—E. T. Stephens, Inc., E. T. Stephens, Pres., 301 Calumet Bldg., will develop 155 acres for residential sites; install \$40,000 electric light system; \$50,000 water works; \$50,000 roads and streets; construction work by owners.*

Fla., Miami—Laurence Realty Co., capital \$20,000, incorporated; Samuel C. Levenson, Pres.; J. M. Flowers, Sec.

Fla., Miami Beach—Highland Holding Co., capital \$350,000, incorporated; Wm. M. Flinn, Pres.; Charles D. Thompson, Sec.

Fla., Milton—C. W. and Thomas Parker acquired 1000 acres of land.

Fla., Milton—A. H. and J. Frank Smith acquired tract of land; will develop.

Fla., Orlando—Lake Section Development Co., capital \$100,000, incorporated; Guy R. Ramsey, Pres., Lake Park Bldg.; D. W. Eastwood, Sec.

Fla., Orlando—Florida Syndicate, Inc., capital \$25,000, chartered; Fred C. Allen, Pres., 209 Cartcast St.; E. F. Coney, Sec.

Fla., Orlando—Orlando Holding Co., capital \$300,000, incorporated; Walter W. Rose, Pres.; George B. Patterson, Sec.

Fla., Palm Beach—Tropical Beach, capital \$30,000, incorporated; Ellis Adams, Pres., Norma E. Ballon, Sec.

Fla., Pablo Beach—Thomas B. Hamby, Jacksonville, acquired tract of land; will develop.

Fla., Pensacola—Durschlag Bros., 2939 Armige Ave., Chicago, Ill., will develop 1000-acre sub-division; install water, sewer, streets and lights.

Fla., Pensacola—Ringling & White, Inc., 17 E. 42nd St., New York City, acquired 50,000 acres in Okalappa and Santa Rosa counties and will develop for small farms, groves and vineyards; develop townsites as colonization demands.*

Fla., Sarasota—Washington Park Estates, capital \$10,000, incorporated; Samuel W. Grumperts, Pres.; Owen Burns, Sec.

Fla., St. Augustine—St. Augustine Development Co., capital \$100,000, incorporated; Rauebac Anderson, Pres.; Thomas H. Anderson, Sec.

Fla., Sarasota—Brown & Crist, Inc., capital \$10,000, incorporated; G. W. Crist, Jr., Pres.; Randolph E. Brown, Sec.

Fla., Sarasota—Walter H. Green acquired tract of 500 acres on Lemon Bay; develop subdivision.

Fla., Sarasota—Lawrence Land & Development Co., St. Petersburg, acquired 170 acres; develop subdivision.

Fla., Sarasota—See Miscellaneous Enterprises.

Fla., Sebring—Home Hardware Co., Walter L. Briscoe, Pres., will increase capital and change name to Home Investment Co.; has 130 acres and will develop 60 acres for sub-division; install city water, lights, sewers, roads; Styles & Van Kleet, Landscape Archts., St. Petersburg.*

Fla., Sebring—C. C. Townes Co., 1724 Cleveland Discount Bldg., Cleveland, O., will develop 250 acres for subdivision; will grade, install water, sewers, electric lights; erect amusement Casino; A. D. Taylor, Landscape Archt., Orlando, Fla.*

Fla., St. Augustine—City will probably acquire and develop golf course. Address The Mayor.

Fla., St. Petersburg—Manor Realty Co., plans development of subdivision at Pinellas Point.

Fla., Tampa—Waverly Hills, capital \$100,000, incorporated; Harry Gallher, Pres.; C. P. Fish, Sec., Shell Point Rd.

Fla., Tampa—Frank B. Stuart, Pres. of Sani-Seal Ice Cream Co., Knoxville, Tenn., O. B. Stuart of Stuart Realty Co., Tampa, acquired 4000 acres; develop subdivision.

Fla., Tampa—South Tampa Estates, incorporated; W. E. Gray, Pres.; 101 Memorial Highway; Earl G. Moore, Sec.

Fla., Tampa—Jack Hughes of Orlando acquired 4000 acres; will develop subdivision; construct bridge.

Fla., Tampa—W. P. Stovall, Bayshore Blvd., Tampa, and L. T. Stovall, Mayfield, Ky., acquired Gables Place; develop subdivision; construct roads and streets, install water, sewer, electric lights, build seawall.

Fla., Tampa—Augustus Hilton acquired for capitalists tract of 640 acres.

Fla., Tampa—A. C. Honore, 812 So. Oregon Ave., acquired 22,000 acres in Marion County.

Fla., Tarpon Springs—Syndicate through Shaw-Wright Co., acquired 5000 acres on Anclote River; will develop.

Fla., Vero—E. P. Waldron acquired 20 acres; develop sub-division.

Fla., West Palm Beach—Hawkins Holding Co., capital \$100,000, incorporated; Robt. B. Austin, Pres.; Juanita Hough, Sec.

Fla., West Palm Beach—Court Properties, Inc., capital \$100,000, incorporated; W. W. Foskett, Pres.; Julius J. Lax, Sec.

Fla., Winter Haven—Winter Haven Ornamental Nurseries, capital \$50,000, incorporated; Joseph D. Nagel, Jr., Pres.; Thomas V. Sniveley, Sec.

Ga., Athens—Benson-Williams Co., Inc., capital \$62,000, incorporated; Oscar Benson, F. H. Williams.

Ga., Atlanta—Collins Construction Co., 63 N. Broad St., capital \$50,000, incorporated; Berry Collins, Pres.; develop 100 acres for subdivision; install lights, water, sewer, sidewalks, streets; expend \$100,000.*

Ga., Augusta—Gray Farms, incorporated; Clifford T. Sego, 1325 Baker Ave.; J. W. Sego.

La., Baton Rouge—Delta Land Owners' Development Co., Inc., incorporated; B. E. Har-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

ris, Pres.; Wm. A. Cooper, Sec., 425 Camelia St.

La., Shreveport—F. R. Hodges Realty Co., Inc., chartered; F. R. Hodges, Pres., Stoner Ave.; Floyd R. Hodges, Jr., Sec.

Md., Baltimore—Atlas Development Co., 359 Calvert Bldg., capital \$100,000, incorporated; Edward Pearl, Samuel Greenfield.

Md., Baltimore—Real Estate Development Co., 3508 O'Donnell St., incorporated; Thomas M. Dinsmore, George A. Novak.

Md., Baltimore—Rosebud Building Co., 2825 Prestman St., incorporated; Frederick W. Hesterberg, Samuel Goodman.

Md., Baltimore—Jay Realty Co., 448-A Equitable Bldg., incorporated; Harry E. Rosser, David Kaufman.

Md., Baltimore—Greater Realty Co., 20 E. Lexington St., incorporated; Seth H. Linthicum, H. Lucille Trussell.

Md., Baltimore—Shelton Realty Co., 402 St. Paul St., incorporated; Ezra B. Whitman, George C. Smith.

Miss., Ashleigh—Carroll Land Co., capital \$20,000, incorporated; J. H. Hobson, Hattiesburg; L. B. Bays, Houston.

Miss., Jackson—Mrs. J. P. Harrison will develop subdivision.

Mo., Columbia—Miss Grace Barkwell will develop tract of land; install water, gas, electric light, water and sidewalks.

Mo., Columbia—See Land Development.

Mo., Kansas City—H. T. Garner Co., incorporated; H. T. Garner, R. E. Smith.

Mo., Kansas City—Mary Frances Miller Estate, capital \$42,000, incorporated; Rose F. Wirtham, Ferd M. Miller, 2538 Chestnut Street.

Mo., St. Joseph—Schloss-August Realty Co., capital \$65,000, incorporated; J. A. Schloss, A. J. August, 321 Felix St.

Mo., St. Louis—Well-Glauber Realty Co., capital \$30,000, incorporated; Elkan W. Glauber, 6939 San Bonita St.; Joseph Well.

Mo., St. Louis—Stedelin Bros., 823 N. 4th St., will develop 75-acre subdivision at Arsenal St. and Watson Blvd.; construct streets and sidewalks; install sewers.

N. C., Asheville—Tar Heel Investment Co., capital \$100,000, incorporated; J. A. Sinclair, Legal Bldg.; W. N. Garrett.

N. C., Brevard—Mrs. Caroline Trash Dorsett, Cecil Apts., Washington, D. C., interested in development of 300 acres of land on Brevard-Asheville highway for Evergreen Hills Estates; expend about \$250,000; grade and build roads, install water, sewers, electric lights; build hotel, sanitarium; tennis courts; pool and fountain; Robert S. Brown, 72 E. 121st St., New York, Archt.-Engr.; R. H. Morrow, Resident Engr.

N. C., Charlotte—F. L. Harkey Co., capital \$100,000, incorporated; F. L. Harkey, J. M. Renfrow.

N. C., High Point—S. C. Clark, developer of Woodbrook Court sub-division, is installing water, sewers, roads and streets and electric lights.

N. C., Laurel Park, P. O. Hendersonville—Donald Ross, Golf Archt., Southern Pines, in charge of development of 18 hole golf course and club house.

N. C., Statesville—Golf Development Co., capital \$125,000, incorporated; C. V. Henkel, Jack Wagner.

N. C., Tryon—P. L. Wright, Hendersonville Real Estate Co., Main St., Hendersonville, let contract to R. G. Rand, East Flat Rock, to construct 60 ft. concrete dam across Vaughn's Creek in connection with development of Lake Lanier; 7 mile shore line and hard surfaced driveway; cost of dam \$60,000; cost of water and sewers, \$100,000.*

Okla., Tulsa—W. D. McCoy, 213 N. 5th St., is developing Beverly Hills, subdivision of 40 acres; is installing roads and streets, water, electric lights.

S. C., Columbia—P. A. Hodges, Inc., incorporated; P. A. Hodges, Pres.; P. A. Hodges, Jr., Sec.

S. C., Greenville—Karpf & Rosenblatt, Inc., capital \$50,000, incorporated; Louis C. Rosenblatt, Pres.; Benjamin Karpf, Sec.

S. C., Greenville—R. B. R. Land Development Co., J. B. Rasor, Mgr., Pendleton St., is developing subdivision; will expend approximately \$65,000 for improvements.

S. C., Spartanburg—R. I. Elliott and Son, have contract for excavating and grading athletic field at Duncan Park.

Tenn., Chattanooga—Dallas Heights Co., 619 Walnut St., capital \$100,000, incorporated W. S. Beck, Pres.; F. E. Hubble, Sec., E. Seventh St.; will develop 117 acres in North Chattanooga for subdivision; grade streets, sidewalks, gutters, sewers, water,

and lights; cost \$50,000; Betts Engineering Co., Constr. Engr., James Bldg.*

Tenn., Memphis—Memphis Cemetery Co., capital \$30,000, incorporated; H. C. Shepherd, 435 Beale St., B. F. Booth.

Tenn., Nashville—Dubbs & Elliott will improve subdivision at Old Hickory; construct streets, install sewers, sidewalks, curbs, gutters, electric lights; water works.

Tenn., St. Elmo—See Land Development.

Tex., Dallas—Trinity Heights Annex Co., capital \$25,000, incorporated; Tom E. Crenefill, J. W. Cooper, 221 N. Rosemont St.

Tex., Houston—Main Realty Co., capital \$12,500, incorporated; Wm. Epstein, Ralph B. Feagin, Coml. Natl. Bank Bldg.

Tex., Houston—Ladin Realty Co., capital \$100,000, incorporated E. Ladin, 936 Omar St., B. A. Palmer.

Tex., San Antonio—Woodlawn Terrace Co., capital \$100,000, incorporated; H. J. Shearer, 2000 W. Huisache St., John T. Wilson.

Tex., San Antonio—H. J. Shear, 2000 W. Huisache St., let contracts for following work in Woodlawn Terrace Addition; to San Antonio Public Service Co., 201 N. St. Marys, at \$15,600 for gas mains; San Antonio Water Supply Co., Brackenridge Park, at \$15,700 for water improvements; Alamo Paving Co., at \$100,000 for paving.

Tex., Vidor—Security Realty & Development Co., capital \$10,000, incorporated; N. Brown, J. Q. Warren.

Va., Danville—Home Co., incorporated; E. H. Rane, Pres.; C. Haskins, Sec.

Va., Norfolk—Bolling Ave. Corp., capital \$10,000, incorporated; H. B. G. Gatt, Pres.; T. S. Halstead, Law Bldg., Sec.

Va., South Boston—Dr. W. P. Lacy, Main St., will develop summer resort at Cluster Springs; install sewer, water, electric lights and roads.

Va., Staunton—H. B. Flesher has acquired 93 acres of land on Valley Pike.

W. Va., Huntington—Wm. L. Branch, Inc., capital \$10,000, incorporated; Wm. L. Branch, J. H. Barnett, Davis Apart.

W. Va., Huntington—T. E. Cobb, 911 28th St., is developing Hollywood, subdivision; J. H. Crewell, New York City, Constr. Engr.

W. Va., Huntington—Herbert Smith, Sec., Automobile Club, interested in development of tourist camp.

W. Va., North Fork—West Virginia Properties Co., capital \$30,000, incorporated; L. H. Clark, C. C. Mehaffey.

Lumber Enterprises

Ala., Mobile—Magazine Hardwood Sawmill Co., O. A. Thayer, Mgr., will rebuild burned planing mill at Magazine Point; loss \$30,000.

Ala., Mobile—Hempstead Sales Co., Inc., incorporated; H. M. Homestead, Pres., Ashland Place; Louise M. Hempstead.

Ala., Selma—S. H. Richardson, Huntsville, plans establishing lumber mill.

Ala., Uniform—Horace S. Turner of Mobile, has acquired 13,500 acres of the Headley Pine Co., including sawmill.

Fla., Lake Worth—B. F. Moore & Son of Kansas City, Mo., reported have purchased stock and equipment of the Hekmick Lumber Co.; will operate under name of Wonder City Lumber Co.

Fla., Indiantown—E. T. Roux of Tampa organizing the Indian Lumber Co., reported, has acquired 160,000 acres in Palm Beach County, containing approximately 200,000,000 ft. of timber; will develop, build sawmills, lay tram roads, erect employees' houses, etc.

Ga., Savannah—Beck-Hege Lumber Co., organized; Harvey L. Beck and Allen Hege, both of Lexington, N. C.; will establish mill, daily capacity 20,000 to 30,000 ft.

Md., Baltimore—Sarstoon Hardwood Timber, Inc., chartered; Frederick A. Chubb, Richard Smith.

Md., Baltimore—The Croatian Lumber Corp., 250 Linthicum Bldg., capital \$150,000, chartered; Wm. Brown, Allan F. Brooks.

Miss., Canton—Canton Lumber Co. increased capital, \$20,000 to \$30,000.

Miss., Jackson—Mississippi Lumber Co., organized; Earl Johnson, Ben H. Johnson.

Mo., Clinton—P. A. Cowan Lumber Co., capital \$25,000, incorporated; P. A. Cowan, A. L. Mills.

Mo., St. Louis—Keystone Hardwood Lumber Co., capital \$20,000, incorporated; J. A. Haffner, Jr., 4511 W. Pine St., I. L. Smith.

N. C., North Wilkesboro—The Carola Lumber Co. has acquired the Meadows Mill Co.'s plant; will operate.

Tex., Ruliff—Peavy-Moore Lumber Co., main office, Shreveport, La., wires: "We will erect mill equipped with two double-cutting band rigs and gang, all machinery will be furnished through Lufkin Foundry & Machinery Co. of Lufkin, Tex., equipment consists of diamond band mills, Wickes gang mill, and engines of Houston, Stanwood & Gamble Co., Cincinnati, Ohio; Fred L. Burdette, Const. Engr., will supervise building, work already under way and all machinery and supplies have been bought for prompt delivery, expect to complete building within ninety days."

W. Va., Williamson—The Two States Lumber Co., capital \$100,000, incorporated; Laut R. Slaven, L. E. Manning.

Metal-Working Plants

W. Va., Nitro—State Road Dept. reported, will soon open plant for the manufacture of automobile tags for year 1926; J. H. Baringer, Supt. in charge.

W. Va., Parkersburg—Seward Wire Co., Camden Ave., SS., J. O. Seward, Pres., let contract for plant addition, increasing capacity.

Mining

Ky., Hickman—Charles E. Miller of the Southern Material & Construction Co., South Trust Bldg., Little Rock, Ark., will establish branch to handle gravel and sand from river points.

Mo., Joplin—The Barnsdall Zinc Co., reported, have purchased the Brewster mill and 160 acre lease from the Chanute Spelter Co., will develop.

Mo., St. Louis—Union Zinc Co. incorporated; W. T. Nardin, 6253 Unminster; D. L. Findley, 602 Commercial Bldg.

Okla., Miami—Euterie Mining Co. let contract to A. O. Qualis to rebuild burned plant.

Tex., Alpine—B. M. Hatfield of Fort Worth is developing potash deposits in the Big Bend region.

Tex., Llano—Dealers Granite Corp., reported, have purchased quarries, machinery and other holdings of the Texas Granite Co.; will move equipment to the Kothe quarry, increasing capacity.

Miscellaneous Construction

Ark., Fayetteville—See Land Development.

D. C., Washington—Dredging—Maj. James A. O'Connor, U. S. Engr. for Dist., has charge of dredging of Virginia channel between Highway bridge and point in river west of Lincoln Memorial; deepen channel to 23 ft. deep, 600 ft. wide; has \$114,500 available.

Fla., Fort Pierce—See Water Works.

Fla., St. Petersburg—City let contract to St. Petersburg Concrete Construction Co. for extension of municipal wharf in Bayboro harbor, extending about 208 ft.; cost about \$15,000; Ernest Kitchen, Director of Public Works.*

Fla., Miami—Dredging—Key Largo Club Properties let contract to Sweet Construction Co. for dredging on Key Largo; begin immediately to plant dykes for the fill; about 1,000,000 cu. yds. material will be moved to complete the development; other contracts will be awarded later.

Fla., Tampa—See Land Development.

Ga., Savannah—Altamaha Bridge Co., Mills B. Lane, Pres., let contract to F. L. Gibson for rebuilding fills to bridge.

Md., Baltimore—Fill—See Road and Street Construction.

Md., Baltimore—Dept. of Public Parks and Squares, Wm. L. Norris, Sec., advises: This office has never heard of any plans for erection of swimming pool at Herring Run Park; lately noted.

Md., Laurel—Speedway—Baltimore-Washington Speedway, Wm. E. Schloegel, Pres., 1300 Hearst Tower Bldg., let contract to Prince Automobile Speedway Construction Co., Jack Prince, Pres., of Oakland, Cal., to construct 1½-mi. oval with grandstands, bleachers, parking spaces, etc.; has 300 acre site.*

N. C., Tryon—See Land Development.

S. C., Georgetown—United States Dist. Engrs. received low bid from and will probably award contract to Sanford & Brooks Co., South and Water Sts., Baltimore, for dredging in Sampit River.*

S. C., Spartanburg—City let contract to Elliot & Son for 20,000 cu. ft. excavation earth at Duncan Park prior to construction of athletic bowl, containing cinder track, etc.

Tex., Houston—The North Side Belt Railway Co., capital \$10,000, chartered; A. M. Johnson, 615 Kipling St., J. Y. Powell; pro-

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pose erecting terminal on north side ship channel.

Tex., Galveston—City. Anne C. Kelley, Sec., contemplates building garbage incinerator; votes May 12 on \$75,000 bonds; C. A. Holt, Engr.

Tex., Port Arthur—See Railway Shops, Terminals, Roundhouses, etc.

Miscellaneous Enterprises

Ark., Little Rock—Arkansas Safety Coach Co., Frank Loiselles, Pres., increased capital, \$25,000 to \$75,000.

Ala., Bessemer—The Bessemer Transfer & Storage Co., Fourth Ave., incorporated; Lon P. Staggs, Pres.; Mrs. Helen Moore, Sec.

Ala., Gadsden—J. H. Arnold Co., J. H. Arnold, Pres., has acquired site on 12th St., establish plant.

Ala., Mobile—The Mobile Paint Manufacturing Co., Inc., 62 S. Commerce St., increased capital, \$50,000 to \$125,000.

Ark., Little Rock—Anderson Tile Co., 225 Louisiana St., capital \$10,000, incorporated; J. W. Anderson, Pres.; J. F. Anderson, Sec.

D. C., Washington—Root Pop Bottling Co., Inc., capital \$50,000, chartered; Peter J. Harris, Nich G. Kountouriotis.

D. C., Washington—Berkeley Springs Hotel & Sanatorium, Inc., capital \$1,000,000, chartered; Franklin C. Jackson, F. J. Goensch.

D. C., Washington—Eagle Bedding Co., 1123 Seventh St., N. W., will erect \$60,000 plant at Fifth and W Sts., N. E., 2-story, 75x208-ft., concrete; H. A. Brandt, Archt., 908 G St.

D. C., Washington—Ford-Carr Construction Co., Inc., 1106 Vermont Ave., N. W., chartered; Edward R. Carr, Pres.; Jefferson L. Ford, Jr., Sec.

Fla., Hollywood—The Hollywood Publishing Co., First St., will erect new building on Hollywood Blvd., 2-story, 50x150 ft.

Fla., Miami—Carlanum Co., incorporated; Carl T. Hoffman, Pres., 425 N. E. 30th; Ammie E. Hoffman, Sec.

Fla., Miami—Short, Flagle & Fields, Inc., capital \$10,000, chartered; Geo. B. Short, Pres.; Roger G. Fields, Sec.

Fla., Miami—Whitewater Bay Corp., capital \$10,000, chartered; John G. Brooks, Pres.; F. A. Newell, Sec., 27 N. W. 17th Pl.

Fla., Miami—Miami Remedies Co., capital \$100,000, incorporated; E. J. Shilling, Pres.; Anna M. Shilling, Sec.

Fla., Miami—The Miami Motor Speedway, Assn., capital \$500,000, chartered; R. A. Hankinson, Pres.; Wm. R. Jesser, Sec.

Fla., Miami—The Coleman Corp., capital \$10,000, chartered; J. F. McNamara, Pres.; Elmer Wetzel, Sec.

Fla., Miami—Florida Contracting & Engineering Co., Inc., capital \$50,000, chartered; Philip F. Gormley, Pres.; Edward P. Mertz, Sec.

Fla., Miami Beach—Herendeen, Inc., W. L. Herendeen, Pres., contemplates erecting modern steam laundry and dry cleaning plant, ice and cold storage plant; R. G. Bergemann, Engr., will install power plant. (See Machinery Wanted—Boiler; Generators; Engines; Water Heater and Purifier; Ice Making and Refrigerating Machines.)

Fla., Orlando—Orlando Amusement, Inc., chartered; E. J. Sparks, Pres.; M. C. Talley, Sec.

Fla., Sarasota—City and Sarasota County plant re-locating fair grounds, together with other amusement features on the Fruitville road; proposed site contains 300 acres, apportioned as follows: 91 acres for fair grounds, 20 acres for park, 143 acres for golf course, use of remaining acreage not decided; erect modern exhibition buildings; contemplate bond issue; John Nolan, City Planner, engaged by City Planning Comsn. to begin work on enterprise.

Fla., Sebring—Sterling Signs Co., Inc., capital \$10,000, chartered; J. L. Swan, Pres.; C. E. Bond, Sec.

Fla., St. Petersburg—Hartman Amusement Co., J. V. Hartman, plan erecting amusement palace corner Second Ave. and Second St., will soon open bids for construction work; let contract to Wakefield-Rattan Co., New York, for all furniture and decorations; to French-Mitchell-Woodbury Co. of Boston, for china and other essentials for roof garden; to the Duparquet Co. of Boston and New York, 110 W. 22d St., for kitchen equipment; O. L. Whatley of the Western Electric Co. of Jacksonville, has arranged to install \$50,000 broadcasting station.

Fla., Tampa—Walmar, Inc., capital \$25,000,

chartered; T. H. Abbey, Pres., Natl. City Bank Bldg.; B. A. Marks, Sec.

Fla., Tampa—Buchanan & Crowder, Inc., capital \$100,000, chartered; L. L. Buchanan, 850 S. Newport Ave., Pres.; E. N. Crowder, Sec.

Fla., Tampa—Lithia Springs, Inc., chartered; W. B. Gray, Pres.; F. M. Hill, Sec.

Fla., Tampa—The A. C. Miller Motion Picture Production Co., A. C. Miller, Pres., of Hollywood, Calif., have begun construction of studio at Fern and Lynn Sts.

Fla., Tampa—The Physicians & Hospital Supply Co., incorporated; E. M. Haltsinger, Pres.; Agnes Adams, Sec.

Fla., Tampa—Tampa Electric Co., Tampa and Cass Sts., T. J. Hanlon, Jr., Mgr., plans motor bus service to supplement present street car schedules.

Fla., West Palm Beach—Bassenger Co., capital \$300,000, incorporated; Jules M. Burguires, Pres.; Buckner Chipley, Sec.

Fla., West Palm Beach—Miller Construction Co., Inc., capital \$10,000, chartered; J. T. Miller, Jr., Pres.; Sidney J. Catts, Jr., Sec.

Ga., Atlanta—Armour & Co., A. P. Ford, Gen. Mgr., 46 E. Alabama of local branch, will occupy building at 399 Whitehall St. to be erected by Massell Realty Co.; cost of building and equipment \$150,000; 3-story and basement, with frontage of 56-ft., containing 25,000 sq. ft. floor space; R. C. Clark, 1650 Besley Ct. of Chicago, Ill., and E. C. Seiz of Atlanta, Archts., 43½ Peach Tree St.

Ga., Rome—Clothing—Rome Manufacturing Co. will occupy \$60,000 building to be erected corner Second Ave. and Third St.

Ga., Savannah—Alexander Brothers Co., 213 Broughton St., Herman Edel, Mgr., contemplates purchasing building at 508 Bay St., double capacity; manufacture overalls.

Ga., Thomasville—Turner-Shumate Publishing Co., M. D. Shumate, Advertising Mgr., Box 281, Merrill Bldg., Broad St., leased building; will probably build at some future date.*

Ky., Ashland—Don Dixon awarded contract to finish the Independent's new building on Seventeenth St., brick and terra cotta finish with copper finish marquis; 2-story and basement, 47x100-ft.; completed within 90 days.

Ky., Hopkinsville—Crystal Bottling Co., capital \$10,000, incorporated; Wm. L. Tandy, Jack Tandy.

La., Cedar Grove—The Keen Bottling Co. of Caddo and Bossier Parishes, capital \$14,000, incorporated; G. R. Landsey, Pres.; R. F. Nordstrum, V-P.

La., Dubach—B. H. Rainwater Co., Inc., capital \$30,000, chartered; J. P. Viss, Pres.; V. A. Davidson, Sec.

La., Lake Charles—Prairie Land & Canal Co., capital \$30,000, incorporated; Benj. M. Musser, Pres., 730 Kirby St.; Henry W. Lanz, Sec.

La., Monroe—Riverside Sanatorium, Inc., capital \$30,000, chartered; Frank Tripp, Pres., 3d St.; Elmer C. Slagel, Sec.

La., New Orleans—Wood Printing Co., Inc., capital \$10,000, chartered; E. R. Wood, Pres.; A. H. Padron, Sec.

La., New Orleans—The New Orleans Corrugated Box Factory, 3111 Bernadotte St., increased capital, \$500,000 to \$750,000.

La., New Orleans—American Leather Co., Inc., capital \$10,000, chartered; Michel Dutrey, 920 Antoine St.; Geo. Harang, 612 Royal St.

La., New Orleans—Salmen, Inc., capital \$50,000, chartered; J. Albert Salmen, V-P.; Alvin D. Carpenter, Treas., both Slidell.

La., New Orleans—Joseph Ferro, Inc., capital \$15,000, chartered; Jos. Ferro, Pres., 1300 Burgundy St.; Tony Ferro, Sec.

La., New Orleans—New Orleans Cereal Co., Inc., capital \$20,000, chartered; Gus Argy, Pres., 7632 St. Charles Ave.; Andrew M. Edwards, Jr., Sec.

La., Ponchatoula—A. M. Edwards Co., Inc., capital \$150,000, chartered; Andrew M. Edwards, Pres.; Andrew M. Edwards, Sec.

La., Rayville—The Leader, Inc., capital \$10,000, chartered; E. A. Jones, Pres.; H. P. Corry, Sec.

La., Shreveport—The Auto Electric Co., Inc., chartered; J. B. Robertson, 1139 Busbey St.; H. L. Young.

Md., Baltimore—Gold Dust Corp., 239 W. Thirtieth St., New York, will receive bids April 15 for first unit of new plant to be erected at Canton, cost about \$1,000,000; Lockwood, Greene & Co., Engrs., 100 East Forty-second St., New York. Details in MANUFACTURERS RECORD, Mar. 26.

Md., Baltimore—R. M. Jennings, Jr., Carnegie Place, Pittsburgh, Pa., reported, establish motor-bus service between Baltimore and Washington, terminals not decided upon; approved by the Maryland Public Service Comsn.

Md., Baltimore—The Lit Silver Plumbing Co., 106 N. Front St., reported, erect \$10,000 addition to plant, 3-story, 24x105-ft., brick.

Md., Baltimore—The United Railways Co., Continental Bldg., have taken over the East Fayette Bus Co.'s 24 busses; will operate.

Md., Baltimore—Jones Radio Manufacturing Corp., 419 N. Eutaw St., capital \$50,000, chartered; Winters Jones, Hugh Jones.

Md., Baltimore—Vacco Manufacturing Corp., 1217 Munsey Bldg., capital \$50,000, chartered; Thomas G. Campbell, J. Keyser Winslow.

Md., Baltimore—The Russell Radio Corp., 1429 Maryland Ave., capital \$100,000; John A. Lemieux, Arthur Russell.

Md., Baltimore—Union Building Corp., 314 American Bldg., chartered; Wm. L. Marbury, Jr.; Richard C. Bernard.

Md., Baltimore—Contracting—J. M. Adams Floor Co., Inc., 330 N. Charles St., capital \$50,000, chartered; John M. Adams, Clarence C. Clickner.

Md., Baltimore—Printing—The Hampden Co., 3318 Beech Ave., capital \$50,000, incorporated; Conrad Himmer, Charles Himmer.

Md., Baltimore—Continental Wine Co., 1 S. Frederick St., incorporated; Julius Lobe, Isaac Robinson; manufacture and distill wines, etc.

Md., Baltimore—Michael Hurwitz granted permit to operate five passenger busses from Baltimore to Washington.

Md., Baltimore—George E. Springer granted permit to operate bus line between Baltimore and Gettysburg, Pa.

Md., Baltimore—Cinder Block Corp., Kate Ave., will erect three 2-story brick additions; one 20x50 ft., one 13x35 ft., and one 18x40 ft.; W. W. Pagon, Archt., Lexington Bldg.; construction by owner.

Miss., Brookhaven—American Pickle Co. has begun construction of 90x144-ft. plant, containing between 40 and 59 vats.

Miss., Corinth—The J. D. Kennedy Co. leased 4-story building; will install equipment for manufacture of mattresses, mops, etc.

Miss., Hattiesburg—Phoenix Laundry Co., Morton Mayo, Gen. Mgr., will rebuild burned plant.

Miss., Tchula—Charles Kaiser of Leland, plans establishing bakery; building under construction and equipment ordered.

Miss., Vicksburg—The Cudahy Co. contemplates building plant at Mulberry and Crawford St.; 1-story and basement; construction by owners.

Mo., Joplin—The Electrical Appliance Co., capital \$15,000, incorporated; H. L. Whitaker, K. H. Barrett.

Mo., Kansas City—Metropolitan Paint Co., capital \$10,000, incorporated; Arthur A. Helwig, 1215 W. Thirty-seventh St.; Joseph H. Storrow.

Mo., Kansas City—Montgomery-Wesson Pie Co., 1802 W. Thirty-ninth St., capital \$10,000, incorporated; Bryan O. Montgomery, John E. Dunn.

Mo., Kansas City—Kansas City Carpet Co., 1104 Walnut St., capital \$10,000, incorporated; Frank F. Hyatt, Chas. R. Bulard, Jr.

Mo., Kansas City—Gould's America Quality Bakery, capital \$15,000, incorporated; Wm. J. Morse, 517 Finance Bldg.; Geo. Gould.

Mo., Kansas City—Plumbers' Supplies—Ross Manufacturing Co., John H. Ross, Pres., has acquired building corner 13th and Lydia St., increasing capacity.

Mo., St. Joseph—Whitman Contracting Co., incorporated; Fred Whitman, Otto Thelsen.

Mo., St. Louis—Mississippi Valley Construction Co., 721 Chestnut St., incorporated; Harry L. Baerveldt, John B. Gutmann.

Mo., St. Louis—Farmington-St. Louis Motor Coach Co., incorporated; Michael Swick, Alfred J. Strobans, Title Guar. Bldg.

Mo., St. Louis—St. Clair Building Co., incorporated; Harry J. Brown, 5917 Theodosia, Blair O. Steele.

Mo., St. Louis—J-B Sales Corp., capital \$20,000, chartered; Roy E. Jones, 3961a Flad, N. K. Schachter.

Mo., St. Louis—Huger & Buecker Construction Co., Inc., Wainright Bldg., increased capital.

Mo., St. Louis—St. Clair Building Co., incorporated; C. Komlosy, B. O. Steele.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Mo., St. Louis—Motion Advertising Co., capital \$10,000, incorporated; Charles Martel, Clarence M. Brouster, 111 N. Broadway.

Mo., St. Louis—Patterns—Conaway-Wadsworth, Inc., chartered; C. W. Conaway, Pres.; C. W. Conaway, Sec.

Mo., St. Louis—American Packing Co., 3842 Garfield St. will erect \$10,000 addition to cooler plant at 3848 Garfield; 80x115-ft., concrete roof; Koerner Engineering Co., Archt., 908 Syndicate Trust Bldg.; construction by owner.

Mo., St. Louis—Snow White Wet Wash, Inc., chartered; E. S. Free, 17 Yale St.; W. N. Stark.

Mo., Willow Springs—Carnation Milk Products Co. of Oconomowoc, Wis., will probably establish plant.

N. C., Asheville—The Yarrow Construction Co., Inc., A. E. Yarrow, Pres., 321 Legal Bldg., successors to the Yarrow Development Co.; will be in market from time to time for material and equipment. (See Machinery Wanted—Building Material and Equipment.)*

N. C., Asheville—Asheville Office Specialty Co., capital \$25,000, incorporated; K. D. Johnson, S. S. Williams, 41 Maxwell St.

N. C., Barnardville—Barnardville Taxi Co., Inc., capital \$10,000, chartered; S. R. Whitaker, S. W. Lewellyn.

N. C., Burlington—North State Creamery Co., capital \$100,000, incorporated; W. J. Graham, F. H. Mendenhall.

N. C., Chapel Hill—Pendergraft Bus Lines, Inc., capital \$25,000, incorporated; H. S. and Robert Pendergraft.

N. C., Charlotte—The Charlotte Jiffy Co., capital \$25,000, incorporated; D. E. Kriminger, 1408 E. 4th St.; H. J. Cheesling.

N. C., Durham—Yarborough Mills, Inc., chartered; R. H. Wright, Mangum and Parish Sts.; A. J. Pollard.

N. C., Enfield—R. L. Swain & Co., capital \$100,000, incorporated; R. L. Swain, H. E. Winston.

N. C., Fayetteville—The Handy Hardware Co., Inc., capital \$100,000, chartered; R. B. Huske, W. O. Huske.

N. C., Gastonia—Hall Marble & Granite Co., Inc., chartered; W. B. Hall, Pres.; L. C. Hall, Sec.; have acquired the Gastonia Marble Works at 1314 E. Franklin Ave. and the White Monument Works, 419 Ransom St.

N. C., Henderson—Independent Highway Service Co., capital \$10,000, incorporated; B. D. Shipman, A. C. Shipman.

N. C., Kinston—The L. B. Jenkins Co. will erect \$60,000 tobacco stemmery in southwest Kinston.

N. C., Lincolnton—Barkley-Keever Electric Co., capital \$15,000, incorporated; Frank P. Barkley, P. M. Keever.

N. C., Marshall—Marshall Auto Bus Line, Inc., capital \$50,000, chartered; Edgar Davis, W. A. Sams.

N. C., North Wilkesboro—North Wilkesboro Hotel Co., capital \$250,000, incorporated; S. V. Tomlinson, J. R. Hix.

N. C., Belwood—The Belwood Lighting Co., capital \$10,000, incorporated; E. W. Dixon, J. W. Brackett.

N. C., Rocky Mount—The Rocky Mount Tobacco Co., capital \$100,000, incorporated; J. R. Butler, F. H. Saunders.

N. C., Salisbury—Rowan Creamery, Inc., capital \$100,000, chartered; C. W. Isenhour, T. M. Hines.

N. C., Saslbury—Transferring, etc.—Coal Chute Co., capital \$100,000, incorporated; P. N. Peacock, Mary T. Peacock.

N. C., Wilmington—Winoca Chemical Co., incorporated; A. M. McKoy, A. M. Whelpley.

Okla., Muskogee—A. F. Laurence, Federal Bldg., contemplates organizing company to manufacture "tourists' box," recently invented.

Okla., Tulsa—Standard Engineering Co., capital \$50,000, incorporated; F. R. McCarthy, 143 S. Owassa St.; J. L. Williams.

Tenn., Chattanooga—Chattanooga Bottle & Glass Manufacturing Co., Alton Park, J. F. Harrison, Pres., contemplates plant additions, increasing capacity.

Tenn., Chattanooga—The Tennessee Electric Power Co., B. C. Edgar, Gen. Mgr., reported plans establishing motor bus lines through section east of Missionary Ridge; territory not being served by street railway system.

Tenn., Chattanooga—The Burdett Oxygen Co., Alton Park, H. B. Pearson, Pres., Chi-

cago, Ill., reported, will erect \$100,000 plant; manufacture oxygen and other allied gases.

Tenn., Chattanooga—James O. Cadek, Walnut St., will erect \$17,000 addition to conservatory.

Tenn., Greeneville—F. H. Lovett, Sec., Chamber of Commerce and associates interested in establishing canning factory.

Tenn., Jellico—The Baker Scale Co., capital \$37,500, incorporated; Geo. E. Baker, U. S. Jones.

Tenn., Lebanon—Kilson County Potato Assn., incorporated; E. C. McAdoo, J. Gould Smith.

Tenn., Knoxville—The Knoxville Roofing and Paving Co. increased capital, \$20,000 to \$30,000.

Tenn., Knoxville—Hi-Land Tobacco Farms, capital \$25,000, incorporated; M. M. Whittle, Burwell Bldg.; S. E. Lynn.

Tenn., Memphis—Fortune-Boggan Drug Co., 49 S. Main St., capital \$50,000, incorporated; W. H. Fortune, L. P. Brown.

Tenn., Nashville—The Hyde-Shotwell Phonograph & Radio Corp., capital \$50,000, incorporated; E. E. Hyde, Gale Ave.; J. A. Shotwell.

Tenn., Selmer—Selmer Canning Factory, capital \$10,000, incorporated; Y. M. Rizer, M. L. Robinson.

Tenn., Shelbyville—The Bedford County Co-operative Creamery Assn., increased capital, \$10,000 to \$15,000.

Tenn., Austin—Southwestern Sales Corp., chartered; J. Harris Gardner, 4003½ Avenue B; W. T. Taylor.

Tenn., Beaumont—Standard Office Supply Co., capital \$18,000, incorporated; A. H. Williams, 2610 South St.; G. P. Vondersmith.

Tenn., Center—Center Coca-Cola Bottling Co., capital \$20,000, incorporated; N. C. Blake, J. W. McKnight.

Tenn., Comanche—E. E. Anthony and associates, contemplate building sweet potato curing plant.

Tenn., Dallas—Rucker-Jones Co., 1317 Commerce St., capital \$50,000, chartered; J. B. Rucker, W. B. Jones.

Tenn., Dallas—Dal-Tex Grain Co., capital \$60,000, incorporated; J. D. Gillespie, O. C. Bruce, 4306½ Gaston St.

Tenn., Dallas—England's Electric Shop, Inc., increased capital, \$10,000 to \$20,000.

Tenn., Galveston—Security Warehouse Co., capital \$48,000, incorporated; Wm. Wiley, F. W. Chase.

Tenn., Dallas—Moline Implement Co., capital \$50,000, incorporated; S. C. Turkenkoph, 4406 Vandellia St.; J. W. Wilson.

Tenn., Dallas—E-Z Starter Co., incorporated; C. B. Crim, 2505 Peabody St.; S. C. Shugart.

Tenn., El Paso—Cactus Food Products Co., Inc., capital \$15,000, chartered; H. A. Taylor, Fred Newman.

Tenn., El Paso—Terrazos & White, capital \$20,000, incorporated; H. B. White, 2816 Frankfort, Albert Terrazos.

Tenn., Fort Worth—Bule Production Co., capital \$25,000, incorporated; James A. Bule, 1710 Washington St.; W. J. Blake.

Tenn., Fort Worth—The Fort Worth Broom & Mattress Supply Co., 104 Williams St., will erect \$15,000 addition at 104 Williams St., 1-story, 100-ft. square.

Tenn., Fort Worth—Crouch Hardware Co., 1007 Main St., increased capital, \$25,000 to \$50,000.

Tenn., Fort Worth—Hollow Cone Co., incorporated; Fred P. Adkins, L. M. Harlow; manufacture ice cream cones.

Tenn., Fort Worth—Bunker Paper Box Co., capital \$30,000, incorporated; Chester H. Bunker, 1505 W. 7th St.; C. C. Cophaw.

Tenn., Lufkin—East Texas Syrup Co., A. H. Hargis, Mgr., will establish plant for packing of table syrup, daily output 1000 cans; later contemplate installing canning machinery, labeling, etc.*

Tenn., Galveston—Model Laundry Co., W. A. Johnson, Pres., will construct 20-ft. steel channel viaduct from plant to the Family Washing Co.'s proposed location adjoining; construction of new plant to begin immediately; 1-story, 85x120 ft., brick and steel frame, cost \$30,000; install \$30,000 equipment.

Tenn., Houston—Cumings-Didion Furniture Co., capital \$10,000, incorporated; Glen S. Cumings, 2011 Nebraska St.; Ralph Didion.

Tenn., Houston—Printing—Southland Farmer, Inc., chartered; R. J. Brower, 2006 Pease St.; V. K. Canada.

Tenn., Houston—The Chain Battery System, Inc., 2019 Franklin Ave., let contract to

Houston Armature Works for motor generator sets; daily output 80 completed batteries.*

Tex., Houston—Painters' Supplies—A. C. Horn Co., capital \$30,000, incorporated; C. E. Lambert, E. M. Bishop, 1615 Ruth St.

Tex., Kerrville—B. C. Richards Stone Co., incorporated; B. C. Richards, F. F. Richards.

Tex., Lamesa—Clark & McDonald Drug Co., capital \$35,000, incorporated; D. T. McDonald, J. S. Clark.

Tex., Lubbock—McDonald Livestock Co., capital \$10,000, incorporated; W. K. Dickinson, Sr., M. A. McDonald.

Tex., Rialto—Henry & Rogers Co., capital \$25,000, incorporated; E. J. Rogers, B. T. Henry.

Tex., San Angelo—The Concho Produce Co., Inc., capital \$10,000, chartered; R. A. Kimberling, Tom P. Early.

Tex., Sweetwater—United States Gypsum Co., reported, will make additional improvements, double capacity for making plaster.*

Tex., Waco—Curry Drug Co., increased capital, \$10,000 to \$30,000.

Va., Bristol—Southern Ice Cream Co. organized; S. R. Jennings, Pres.; J. L. Godsey, Sec.; formed by merger of the Holston Creamery Co. and Southern Refrigeration Co., both of Bristol; the Chapin-Sacks Co. of Johnson City; contemplated annual output 500,000 gal. ice cream.

Va., Danville—Wilson Tobacco Co., Inc., chartered; W. J. King, Pres., Wilson, N. C.; L. N. Dibrell, Sec., 124 Broad St., Danville.

Va., Norfolk—The Virginia Railway & Power Co. reported preparing to expend big sum for establishing bus service.

Va., Norfolk—W. S. Buxton, Glencove, Pl., V. P. Buxton Lines, operating lines from Norfolk to Petersburg and landings on James River, interested in merging of lines in this section.

Va., Norfolk—Bolling Avenue Corp., chartered; H. B. G. Galt, Pres.; T. S. Halstead, Sec.

Va., South Boston—Dr. W. P. Lacey let contract to E. R. Farmer, S. Boston, for amusement park and summer resort, developing about 10 acres; expend from \$10,000 to \$15,000 this season.*

W. Va., Ronceverte—Fire Equipment—See Road and Street Construction.

W. Va., Dunbar—Dunbar Flint Glass Co., reported, has acquired plant and equipment of the Pennsylvania Glass Co.; will remodel and operate as an addition to present plant.

W. Va., Fairmont—The Eardley-Woodward Printing Co., capital \$20,000, incorporated; Wilmot Eardley, 309 3rd St.; R. S. Woodward.

W. Va., Fairmont—Fairmont Whistle Products Co., incorporated; Charles C. Sel-J. M. Ritz, A. M. Seabright.

W. Va., Huntington—O. V. Barber Supply Co., incorporated; B. F. Stephens, O. L. Brucken.

W. Va., Milton—J. H. Harshbarger, Chrmn. of Committee, interested in establishing canning factory.

Motor Cars, Garages, Tires, Etc.

Ark., El Dorado—The Skiles Motor Co., capital \$25,000, incorporated J. L. Skiles, Edwin M. Jones.

Ark., Little Rock—Capitol Automobile Co., capital \$25,000, incorporated; W. W. Sorrels, E. R. Johnson, Bankers Trust Bldg.

Fla., Avon Park—Park Motor Co. will erect \$25,000 garage on N. Main St.; plans completed.

Fla., Jacksonville—Martin-Parry Corp., T. E. Chancellor, Gen. Sales Mgr., York, Pa., reported, plans establishing assembling plant and distributing branch.

Fla., Sarasota—U. S. Garage Co., capital \$50,000, incorporated C. N. Payne, Pres.; D. W. Fatlo, Sec.

Ga., Atlanta—Chevrolet Motor Co. have leased building corner Marietta and Walton St., establish storage and repair garage.

La., Monroe—Motor Supply Co. Inc., capital \$50,000, chartered; Geo. W. Weeks, Roy O. Hale, St. Johns St.

La., Sikes—Crain Motor Co., Inc., chartered; M. C. Crain, Pres.; A. L. Sikes, Sec.

Miss., Corinth—G. and L. Motor Co., capital \$20,000, incorporated; R. J. Lichkuff, Corinth; F. E. Cartrell, Meridian.

Md., Baltimore—Union Oil Co., Shot Tower Bldg., will erect drive-in filling station on Fayette and Front Sts.

Miss., McComb—Standard Oil Co. will erect filling station, corner Front and Canal St.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Mo., Boonville—Eugene Darby let contract to Wm. Walther and J. H. Stretz, both Boonville, for storage garage at Chestnut and 6th Sts., 10,000 sq. ft. floor space, brick and concrete, electric opening doors and other improvements.

Mo., Canton—Cook Motor Co., capital \$8,000, incorporated; Harry M. Cook, Lee W. Taylor.

Mo., Doniphan—Ripley County Auto Co., capital \$25,000, incorporated; C. E. White, Homer N. Miles.

Mo., St. Louis—Automotive Parts & Equipment Corp., capital \$32,000, chartered; H. S. Till, G. M. Sallwasser, 4276 Arsenal St.

Mo., St. Louis—Farmington St. Louis Motor Coach Co., incorporated; M. Zwick, Sr., A. J. Strohans, Title Guar. Bldg.

N. C., Asheville—Sawyer Motor Co., E. C. Sawyer, Gen. Mgr., Church St., let contract to L. L. Merchant Construction Co. of Asheville at \$90,000, for garage and storage building corner Cox and Hillard Ave., reinforced concrete, fireproof; roof will be 100x150 ft. used for storage, capacity 100 cars; H. W. Kindler, of Asheville, will install heating and plumbing system; V. W. Breese & Co., Engrs., Charlotte.

N. C., Lexington—Olin Evans will erect 50x80-ft. building on 2nd St., brick; to be occupied by Lexington Motor Co., J. O. Boaze, Mgr.

N. C., Matthews—Waddill Motor Co., capital \$50,000, incorporated; C. K. Waddill of Cheraw, S. C.; H. C. Dockery, Charlotte.

N. C., Whitakers—Whitakers Motor Co., capital \$10,000, incorporated; B. A. Strickland, G. W. Whitaker.

Okla., Grove—Grove Motor Co., C. A. Babb, Mgr., will erect \$10,000 garage, brick; has site.

S. C., Chester—Wylie White will erect garage on Hudson St.

Tenn., Chattanooga—Trimble & Bryant Auto Co., 404 Broad St., organized; C. H. Bryant, J. L. Trimble, have purchased the Duffy Motor Co., operate sales and service station.

Tenn., Chattanooga—Henry King and T. Walter Fred, Look-Out Mountain, will erect filling station on Eleventh St.

S. C., Greenville—Parrish, Gower & Springs, 125 W. McBee St., have begun work on garage corner Spring and McBee Ave., brick, 150x150 ft.; to be occupied by Louis Simpson Automobile Co.

Tenn., Dyersburg—Hart Motor Co., F. D. Hobbs, owner, will erect 2-story automobile home; George Mahan, Jr., Archt., Memphis.

Tenn., Nashville—Auto Necessity Co., capital \$10,000, incorporated; Y. M. Rizer, L. S. Rosenfield.

Tex., Lockhart—Quality Car Co. will erect filling and service station corner Church and W. Market Sts.

Tex., Lott—The Lott Motor Co., capital \$15,000, incorporated; O. D. Kain, H. M. Richey.

Tex., San Antonio—Louis Lipscomb, Russell Bldg., receiving bids for \$35,000 garage corner Martin and Prospect St., 2-story, hollow tile, reinforced concrete; Richard Vander Stratton, Archt., Travis Bldg.*

Va., Norfolk—Rankin Tire Co., Inc., chartered; B. A. Rankin, Pres.; Harry E. Billups, Sec., both Richmond.

W. Va., Fairmont—The Standard Tire Co., incorporated; John L. Gill, 510 Gaston Ave.; O. H. Price.

W. Va., Morgantown—Motor Engineers Co., Bennett S. White, Sec., 2183 University Ave., let contract for \$40,000 garage and service station, 2 story, 54x125 ft., reinforced concrete, and brick, reinforced concrete floors, pitch and felt on concrete roof; Jacobs & White, Archt.; about completed.*

Railway Shops, Terminals, Round-houses, Etc.

Ark., Nashville—Graysonia, Nashville & Ashdown R. R. Co., C. M. Conway, Pres., Texarkana, Ark., reported, will rebuild burned shops; C. S. Christian, Chf. Engr., Nashville.

Fla., Tampa—Atlantic Coast Line R. R., Lyman Delano, V. P., Wilmington, N. C., reported will establish new terminal yards; will erect transportation and classification yard with approximately 10 mi. tracks; plant will include 100-ft. turntable, round house and machine shop with drop pits, store house and office buildings, oil house, blacksmith shops, 500 ton coaling plant, cinder holst, water softening plant, coach washing tracks and drop pits, coach cleaning shops, boiler washing plants, water supply system, fire protection, air pipes throughout the yards and

shops, track scales, etc.; capacity of yards 610 cars, with sample room for expansion to accommodate three times that number; necessary grading, preliminary to laying tracks and erecting building will involve the removal or handling of about 100,000 cu. yds. earth; J. E. Willoughby, Chief Engr., Wilmington, N. C.

La., Shreveport—Kansas City Southern Ry. Co., L. F. Loree, Chrmn. of Board, 25 Broad St., New York; reported spending \$400,000 on new classification yard.

Tex., Port Arthur—Kansas City Southern Ry. Co., L. F. Loree, Chrmn. of Board, 25 Broad St., New York, reported spending \$600,000 on enlarging grain elevator and \$150,000 on yard and dock construction; also contemplate building \$500,000 shops during year 1926; has 135 acre site.

Road and Street Construction

Alabama—State Highway Comm., Montgomery, receives bids May 13 for 2 roads and 2 bridges: Lawrence County, 5 mi. Cheatham road, 19,556 cu. yd. common earth, solid rock excavation and borrow 11,798 lbs. reinforced steel, also repair bridge at Sta., 20x-45; Limestone County, 11.115 mi. road, between Athens and Federal Aid Project No. 49, 87,519 cu. yd. common earth, solid rock excavation and borrow; Colbert County, bridge over Bear Creek between Marguerum and Mississippi State line, 140,319 lbs. structural steel and castings, 66,250 lbs. reinforcing steel; Dale County, bridge across Choctawhatchee River, about 1 mi. from Newton, 44,600 lbs. steel reinforcing, 167,500 lbs. structural steel, including castings, I-beam spans, concrete decks, creosoted timber approach; plans on file and from Div. Engr., Lincoln Life Bldg., Birmingham.

Alabama—State Highway Comm., Montgomery, receives bids May 13 for 3 roads; Elmore County, 18 mi. gravel and tonsoil, from Wetumpka to Coosa County line toward Kellyton and Goodwater; Dale County, 8 mi. sand-clay, between Troy and Ozark; DeKalb County, 12 mi. chert, between Fort Payne and Valley Head; W. S. Keller, State Highway Engr.

Ala., Anniston—State Highway Comm., Montgomery, plans hard-surfacing highway between Anniston and Oxford, Calhoun County.

Ala., Birmingham—City received low bids totaling \$181,845 to pave 12 streets and alleys: Southern Road Construction Co., Dunn Construction Co., Hemming, Bragan & Gamble Construction Co., all Birmingham; Joe Fromhold, W. F. Fromhold.

Ala., Birmingham—See Land Development.

Ala., Vernon—Lamar County plans 3 roads: From Guin to Sulligent; from Sulligent to Fayette County, through Vernon; probably road from Vernon to Pickens County line; \$300,000 appropriated. Address County Comms.

Ala., Capitol Heights—City let contracts at about \$200,000 to pave 5 streets: Couch Construction Co., concrete on Winona, Capitol and St. Charles Ave.; Hodgson & Jones, bitulithic and concrete on Yancey and James Ave.

Ala., Capitol Heights—Town let contract to J. K. Lynch Construction Co., Dothan, to pave sidewalks on Panama, Maryland, parts of California and Vickers St.

Ala., Decatur—State Highway Comm., Montgomery, will build 2 roads: From Decatur to Lawrence County line toward Moulton; from Decatur to Big Pond Branch toward Courtland; H. D. Burnam, Engr., in charge of this section.

Ala., Huntsville—Madison County will receive bids soon for 11 mi. Florida Short Route highway from Big Cove pike to Marshall County line, at New Hope. Address County Comms.

Ala., Mobile—State Highway Comm., Montgomery, plans 28 mi. Mississippi Valley Highway in Mobile County, through Citronelle; L. G. Smith, Ch. Locating Engr., State Highway Comm.

Ala., Montgomery—City, J. L. Cobbs, Treas., receives bids Apr. 21 to grade, lay granite curbing, gutters, install surface and storm sewers, build brick walls, including paving sidewalks on Cromwell St. from Goode to Sayre, and Hanrick St. from Clayton to Marthat, with hexagon tile or Schillinger pavement; pave roadways of Columbus St. from Perry to Ripley, Decatur from Washington to Adams, Day St. from Holt to point 250 ft. eastward and from Day to Grady, Highland Ave. from Highland Ave. bridge to city limits. Ripley from Jefferson to Madison Ave. with asphalt, bitulithic, concrete, vibrolithic, concrete, asphaltic concrete or rawhide; also install 8-in. vitrified pipe sanitary sewer on Cromwell St.; plans from J. M. Garrett, City Engr.

Ala., Sylacauga—City plans curbing and guttering every street; also installing white way. Address City Clk.

Arkansas—State Highway Comm., Little Rock, receives bids Apr. 15 for 4 roads, totaling 37 mi.: Union County, El Dorado-Junction City; Poinsett County, 11 mi. Improvement Dist. No. 5; Grant County, 10 mi. Improvement Dist. No. 4; Lee County, 14 mi. Improvement Dist. No. 3.

D. C., Washington—Dist. Comms. receive bids April 8 for about 19,500 cu. yd. grading; plans at Room 427, Dist. Bldg.

Fla., Babson Park—See Land Development.

Fla., Bartow—City Comm., W. H. Bradley, Clk., receives bids Apr. 28 for 17,000 sq. yd. paving, with necessary curbing, gutters and appurtenances; plans on file and from E. V. Camp & Associates, Engrs., Atlanta, Ga., Bartow and Jacksonville, Fla.

Fla., Clearwater—City Comms. plan widening Cleveland St.

Fla., Clearwater—Pinellas County Comms. let contract to Davis, Miller & Cobb for 8 roads and bridges in Special Road and Bridge Dists. Nos. 7 and 9.*

Fla., Clearwater—Pinellas County let contract to Nelson Brothers, at \$360,482 for 11 mi. high type paving in Special Road and Bridge Dist. No. 4.*

Fla., Davenport—Town let contract to L. B. McLeod Construction Co., Prospect Rd., Tampa, at \$300,000 for about 10 mi. asphalt and rock base paving, 100,000 lin. ft. curbs, gutters, storm sewer systems, and 45,000 sq. yd. concrete sidewalks.*

Fla., Fort Pierce—See Land Development.

Fla., Fort Pierce—See Water Works.

Fla., Fort Pierce—City plans widening various streets; Chas. W. Murray, Engr., 1326 SW. 1st St., Miami.

Fla., Goulds—See Land Development.

Fla., Lake Alfred—City, J. D. Miles, Mayor, plans paving 10 mi. street with sheet asphalt; contemplates \$300,000 bond election.

Fla., Manatee—City receives bids Apr. 21 to grade, drain, pave, construct culverts, storm sewers, lay sewer, drain and water pipes; plans from City Clk. or office Res. Engr.; Kirby & Webb, Comms. of Public Works.

Fla., Miami—City Comm., H. E. Ross, City Clk., receives bids April 14 for 34,501 sq. yd. concrete sidewalks in Sidewalk Improvements Nos. 55, 56 and 57; also street paving in Highway Improvements, 245 to 253, inclusive, and 255 to 263 inclusive. 2555 sq. yd. grading, 2222 sq. yd. 5-in. foundation course native rock paving, oiled; 99,933 sq. yd. grading and 5-in. foundation course native rock with asphalt wearing surface, or 6 1/4-in. foundation course native rock with Kentucky asphalt wearing surface; 116,466 sq. yd. grading, and 8-in. foundation course native rock with asphalt wearing surface, or 9 1/2-in. native rock foundation course, with 1 1/2-in. Kentucky rock asphalt wearing surface; 97,984 lin. ft. concrete curb and gutter, 264 catch basins, 49 manholes, 8061 lin. ft. terra cotta pipe; plans from Ernest Cotton, Director of Public Service.

Fla., Miami—See Land Development.

Fla., Palmetto—City plans expending \$300,000 for paving, street widening, and installation of white way lighting; Kirby & Webb, Engrs., Bradenton.

Fla., Pensacola—See Land Development.

Fla., Sarasota—Sarasota County let contract to W. J. Bryson Paving Co. and J. Y. Wilson, Jacksonville, at \$375,000, to hard-surface 7 roads, totaling 38 mi., Florida lime rock base, asphaltic surface treatment.*

Fla., St. Augustine—See Bridges, Culverts, Viaducts.

Fla., Sebring—See Land Development.

Fla., St. Petersburg—City received low bid from St. Petersburg Concrete Construction Co. for sidewalks in various sections of city.

Fla., Tampa—See Land Development.

Fla., Tampa—City Comm., Wm. E. Duncan, Clk., receives bids Apr. 14 to pave Hugh St. from Jefferson to Central Ave., 1470 sq. yd. asphalt blocks, 1000 lin. ft. granite curbing; Fourteenth St. from Tenth to Thirteenth St., 2600 sq. yd. asphalt blocks, 2050 lin. ft. concrete curbing; plans from City Engr.

Fla., Tarpon Springs—Tarpon Springs Enterprises, Inc., is expending \$53,000 to pave Broadway with brick and widen to 80 ft.*

Fla., Zellwood—Florida Humus Co. plans 6 mi. clay road from Holly Arms hotel to western limits of their property at Delta City.

Georgia—State Highway Dept., East Point, receives bids Apr. 24 for 2 roads and 2 bridges and approaches: Coweta County, 5.076 mi. concrete Atlanta-Newnan road, 14,032 cu.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

yd. common, loose and solid rock and borrow excavation, 53,699 sq. yd. concrete paving; Gwinnett County, 4,292 mi. penetration macadam on Lawrenceville-Decatur road; Chatahochee-Muscogee Counties, concrete and steel bridge over Upatoi Creek on Columbus-Cusseta road, 14,500 lbs. reinforcing steel; Brooks County, bridge and approaches on Quitman-Thomasville road, 21,006 cu. yd. common and borrow excavation, 2218 cu. yd. sand-clay surfacing; plans on file and from Div. Engrs.; W. R. Neel, State Highway Engr. (See Machinery Wanted—Road Building Material.)

Ga., Atlanta—G. F. Willis, developer Avondale Estates, plans about 24 mi. paved avenues and drives about civic center.

Ga., Atlanta—See Land Development.

Ga., Camilla—Mitchell County plans paving Dixie Highway through County, from Dougherty County line on north to Thomas County line on south. Address County Comms.

Ga., Lincolnton—Lincoln County plans highway from Lisbon to Lincolnton; contemplates bond election. Address County Comms.

Ga., Milltown—Town, Mayor Miller, Reason Henderson, J. J. Knight interested in completing State Route No. 11, connecting Central Dixie Highway with Western Dixie at Jasper, Fla.

Ga., Savannah—City plans paving and resurfacing 8 streets, including Price, 41st, Henry; J. Ward Motte, Supt. Dept. of Public Works; W. O'D. Rockwell, City Engr.

Ga., Waycross—State Highway Dept., East Point, plans paving Waycross-Folkston section of Dixie Highway.

Kentucky—State Highway Comm., Frankfort, let contracts for 6 roads: Jackson County, portion of Bosworth Trail, T. W. Miller Co.; Ohio County, Sec. B, 7.810 mi. Beaver Dam to Owensboro, Ellis & Smeathers, Owensboro, \$95,749; Sec. C, 8.087 mi. Beaver Dam to Morgantown, W. W. Carter, \$35,396; Pike County, 5.769 mi. Pikeville to Whitesburg, Codell Construction Co., \$151,124; Fulton County, Sec. A, 12.53 mi., Ellis & Smeathers, \$96,561; Sec. C, 11.949 mi., S. K. Jones Construction Co., \$56,665; Hardin-Larue County, 4.735 mi., Costella Brothers, \$39,025.

Ky., Whitesburg—Letcher County Fiscal Court will let contract in about 30 days for 6 mi. Mayo Trail Highway toward Harlan.

Ky., Whitesburg—Letcher County Fiscal Court will let contract in about 10 days for Lower Rockland section of Whitesburg to Blackey Highway.

Ky., Whitesburg—Letcher County let contract to Hart & Cooper for 2 mi. road from Marion Coal Co., on Lower Rockhouse to Blackey. Address County Comms.

Louisiana—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, receives bids April 30 for 3 gravel roads: Vermilion Parish, 7.15 mi. Kaplan-Crowley Highway, from point about 1½ mi. west of Kaplan through Leleux to Bayou Tirtue, Vermilion-Arcadia Parish Line; Natchitoches Parish, Sec. A, 3.83 mi. Natchitoches-Boyce Highway, from bridge over Cane River at Monette Ferry to Rapides Parish line, about 2 mi. northwest of Lena; Union Parish, 7.15 mi. Bernice-Junction City Highway, from Lillie to Junction City; plans on file; W. B. Robert, State Highway Engr. (See Machinery Wanted—Gravel.)

Louisiana—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, receives bids April 30 for 2 roads: Franklin Parish, Sec. C, 9.24 mi. gravel, Winnsboro-Delhi Highway from end of present gravel road about 2 mi. south of Crowell, through Crowville and Lamar to end of gravel road about 1 mi. north of Lamar; St. Landry Parish, Sec. A, 4.43 mi. gravel Morrow-Moreauville Highway from Jefferson Highway at Morrow toward Moreauville; plans on file; W. B. Robert, State Highway Engr.

La., Baton Rouge—City Comm. plans repairing, laying and relaying sidewalks in various sections, including sidewalks on neutral ground in North Boulevard in front of post office; Geo. W. Garig, Comms. of Public Parks and Streets.

La., Monroe—Ouachita Parish Police Jury receives bids Apr. 8 to gravel 2 sections of roads: 3 mi. Jonesboro, Section No. 4, 5000 yd. gravel; Columbia Extension Highway, 4000 yd. gravel; R. O. Morrison, Parish Highway Engr.

La., New Orleans—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, plans expending about \$2,000,000 for Lake Shore link of Hammond-New Orleans Highway.

Maryland—State Roads Comm., 601 Garrett Bldg., Baltimore, receives bids April 21 for 3 roads: Montgomery County, 1.02 mi. concrete along Urbana Pike, from end of Cont. M-50 to Frederick County line, Cont.

M-56; Calvert County, 2 mi. gravel from end Cont. C-17, toward Plum Point, Cont. C-22; Baltimore City, .68 mi. concrete along Carnegie Ave., from O'Donnell St. to 5th Ave.; John N. Mackall, Chmn.; L. H. Steuart, Sec.

Maryland—State Roads Comm., 601 Garrett Bldg., Baltimore, received low bids for 8 roads: Baltimore County, 1.5 mi. concrete shoulders along Falls road, from Seminary Ave. to Broadway, H. T. Campbell Sons Co., Record Bldg., \$15,264; 5.03 mi. concrete shoulders, along York road, from ½ mi. south of Timonium to Western Run, H. T. Campbell Sons Co., \$49,345; 1.87 mi. concrete surface along Falls road from end of Cont. B-64 toward Black Rock, H. T. Campbell Sons Co., \$71,461; 1.3 mi. concrete shoulders along Frederick road, from Catonsville to Ellicott City, P. Redding & Sons, 2 E. Lexington St., \$31,623; Kent County, 1.49 mi. concrete surface from Coleman's Corner toward Crosby, Kauffman Construction Co., \$24,354; 2.03 mi. concrete surface from end of Cont. K-25 to Tolchester Beach, Slacum, Brohawn & Woolford, \$31,804; Carroll County, 1.25 mi. concrete surface along Westminster-Warfields road, from end of Cont. C-31-Ext. to Warfieldsburg, Thomas, Bennett & Hunter, \$35,306; Queen Anne's County, 1.85 mi. concrete surface, from Queen Anne toward Starr, and Stevensville to Chester, P. D. Phillips & Bro., \$41,900.

Md., Baltimore—City, Howard W. Jackson, Mayor, receives bids Apr. 22 to pave Orleans St. from Forrest to Broadway, Fawn St. from President to Central Ave. and Trinity from Albemarle to Exeter St. sheet asphalt; Bernard L. Crozier, Highways Engr.

Md., Baltimore—Municipal Dept. of Public Improvements approved plans to open 3 mi. Patapsco Ave. from First St. Brooklyn, to old Annapolis road, and extending across Mud Island flats with bridge and fills; Howard W. Jackson, Mayor.

Md., Baltimore—Board of Awards receives bids April 15 to pave with sheet asphalt Calvert, Hanover, Charles Sts., Linwood and Fairmount Aves., and intersection Eutaw Place and North Ave.; plans on file; Howard W. Jackson, Mayor; Bernard L. Crozier, Highways Engr.

Md., Baltimore—State Roads Comm., 601 Garrett Bldg., receives bids Apr. 14 for .63 mi. sheet asphalt along Washington St. from Fayette to Chase St.; John N. Mackall, Chmn.; L. H. Steuart, Sec.

Miss., Bay St. Louis—Hancock County plans hard-surfacing streets in Bay St. Louis; voted \$180,000 bonds. Address County Comms.

Miss., Drew—Board of Aldermen let contract to Douglas Construction Co., Drew, to curb and gutter Shaw St., from Main to Church St.

Miss., Greenville—Washington County plans completing 5 mi. 18-ft. Ferry Road, from Greenville to Warfield's Landing; contemplates bond election; L. C. Hayes, Pres. Board of Supvrs.

Miss., Meridian—City plans several miles grading, curbing, guttering and paving; also laying storm and sanitary sewers; John C. Watts, City Engr.

Miss., Vicksburg—City, J. J. Hayes, Mayor, receives bids Apr. 10 to repair Clay St. extension from Howard St. to Memorial Arch; plans from City Clk.

Mo., Cape Girardeau—Board of Comms. Cape Special Road Dist., receive bids April 18 for 4.2 mi. gravel road in Cape Girardeau; plans from W. F. Bergmann, Sec.

Mo., Columbia—See Land Development.

Mo., St. Joseph—Board of Public Works plans re-surfacing King Hill Ave., from S. 6th St. viaduct to Missouri Ave. with concrete.

Mo., St. Louis—See Land Development.

Mo., Van Buren—State Highway Dept., Jefferson City, let contract to A. A. Davis, Oklahoma City, for 2 sections road from Van Buren east and west: 3.094 mi. 12-ft. gravel, \$8566; 4.489 mi. 12-ft. gravel, \$12,550.

N. C., Asheville—Buncombe County Comms. receive bids April 13 to grade and pave Kenilworth road, 1600 cu. yd. grading, 10,500 sq. yd. plain one-course concrete and asphaltic wearing surface on concrete base; plans on file; E. M. Lyda, Chmn.

N. C., Brevard—See Land Development.

N. C., Carthage—State Highway Dept., Raleigh, plans 6 mi. hard-surfaced road on Route No. 50, between Southern Pines and Lakeview; also plans oiling Route No. 50 from Lakeview to Lee County line.

N. C., Elizabeth City—City, W. M. Ferebee, Mgr., let contract to Louis Lawson, Norfolk, Va., at \$20,000 for 9000 sq. yd. concrete sidewalks and 4000 lin. ft. concrete curbing.

N. C., Greensboro—City, E. G. Sherrill,

Clk., plans expending \$500,000 to pave 19 streets.

N. C., High Point—See Land Development.
N. C., Shelby—Board of Aldermen let contract to L. J. and F. L. Wagner, Shelby, for about 1500 yd. concrete surfacing on E. Marion St.*

N. C., Tarboro—Edgecombe County Comms. plan improving 4 roads: Hard-surfaced road from Tarboro to Halifax County line; contemplates \$200,000 short-term notes; build Project No. 12 toward Fountain; road to Thorne's Store; hard-surfaced road to Leggetts.

N. C., Tryon—See Land Development.

N. C., Winston-Salem—City plans paving Cleveland Ave. from Bellows St. to fair grounds. Address City Clk.

Oklahoma—State Highway Dept., Oklahoma City, will receive bids soon for 3 roads: Haskell County, 4 mi. from Whitefield to Sigler; Mayes County, from Pryor to Adair, from Choteau to Locust Grove; also 4 bridges: Adair County, across Barron Fork, between Westville and Stillwell and over Duncan Creek; 2 bridges across Evansville Creek, between Stillwell and Arkansas line.

Okla., Sulphur—Geo. E. Goodwin, Ch. Civil Engr., National Park Service, receives bids April 27 at office of Supt. of Platt National Park, Sulphur, to install and improve drainage structures, widen and surface roads of Platt National Park; plans from Ch. Civil Engr., 811 Couch Bldg., Portland, Ore., or National Park Service, Washington, Supt. of Platt National Park, Sulphur, Chamber of Commerce of Oklahoma City, Ardmore, Pauls Valley, Shawnee, Guthrie, Davis and Tulsa, Okla.; Arno B. Cammerer, Acting Director.*

Okla., Tulsa—City plans street improvement; votes April 14 on \$500,000 bonds. Address the Mayor.

Okla., Tulsa—See Land Development.

Okla., Wewoka—State Highway Comm., Oklahoma City, plans hard surfaced road from Wewoka to Cromwell, and on to North Canadian River.

S. C., Mullins—City plans paving and street and sidewalk improvements; votes this week on \$50,000 bonds. Address City Clk.

Tenn., Chattanooga—E. D. Bass, Commr. Dept. Street and Sewers, received low bid from Gamble Construction Co. at \$2.43 to \$2.48 per sq. to pave with sheet asphalt and asphaltic concrete 11 streets in various districts.*

Tenn., Chattanooga—See Land Development.

Tenn., Cleveland—Dept. of Highways and Public Works, Nashville, plans detour road between Cleveland and Charleston, estimated cost \$24,000; J. G. Creveling, Jr., State Highway Commr.

Tennessee—Dept. of Highways and Public Works, Nashville, receives bids April 24 for 9 roads and 3 bridges: McNinn County, 7.02 mi. cement concrete pavement; Anderson County, 5.43 mi. cement concrete pavement or bituminous concrete surface on cement concrete base; Haywood County, 10.71 mi. bituminous concrete surface on cement base, or cement concrete pavement; also reinforced concrete and steel bridge, three 40-ft. spans, one 80-ft. span; Tipton County, 3.42 mi. cement concrete pavement or bituminous concrete surface on cement base; Marion County, 4.40 mi. bituminous concrete surface; Sumner County, three 30-ft. spans reinforced concrete bridge; Cumberland County, 8.56 mi. slag surfacing; Hamblen County, 3.11 mi. bituminous macadam surface; Crockett County, 5.75 mi. bituminous concrete surface on cement concrete base, or plain cement concrete pavement; Grundy County, small reinforced concrete drainage structures; plans on file; J. S. Creveling, Jr., Commr.

Tennessee—Dept. of Highways and Public Works, Nashville, let contracts for 7 roads: Polk County, 12.56 mi. grading and drainage, State Highway No. 39, between Benton and Georgia State line, Corum Brothers, Madisonville, Ky., \$69,515; Scott County, 14.04 mi. grading and drainage, Mason Construction Co., Elizabethtown, Ky., \$144,694; Gibson County, 14.75 mi. grading and drainage, Cresap Brothers, Humboldt, \$83,480; also 7 bridges, Peterson & Earnhart, Montgomery, Ala., \$119,980; 9.41 mi. cement concrete pavement, State Highway No. 42, between Madison County line and Milam, Lawrence Construction Co., Daniel Bldg., Jackson, Miss., \$227,644; Loudon County, 5.23 mi. cement concrete pavement, R. M. Galloway, Lenoir City, \$133,240; Sumner County, .98 mi. rock asphalt on crushed stone base, Federal Contracting Co., Nashville, \$18,279; Hawkins County, 10.02 mi. grading, drainage and waterbound macadam surface, Freeman Construction Co., Knoxville, \$144,689.*

Tenn., Brownsville—Dept. of Highways and

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Public Works, Nashville, plans paving with concrete Brownsville-Memphis road in Hayward County.

Tenn., Lenoir City—Callaway & Fisher awarded contract at about \$130,000 to concrete road between Lenoir City and Kingston pike. Address J. G. Creveling, Jr., State Highway Commr.*

Tenn., Maryville—Blount County Highway Comm. let contract to Chas. M. French, at \$392,580, for 53 mi. grading and 85 mi. macadam.*

Tenn., Nashville—See Land Development.

Tenn., St. Elmo—City, W. B. Rollins, Mayor, plans curbing and sewer extension; contemplates \$40,000 bond issue.

Tex., Albany—Shackelford County let contract to Ed. Shelton, Temple, at \$60,879, to grade and bridge 12.71 mi. State Highway No. 1-A, Albany to Stephens County line.*

Tex., Anderson—Grimes County plans 8.8 mi. 16-ft. gravel road on State Highway No. 45, from Roans Prairie to Walker County line, approximate cost \$121,500; Oscar A. Seward, Jr., County Engr., Navasota; Ralph W. Barry, County Judge.

Tex., Alpine—Brewster County receives bids Apr. 30 to grade and bridge 5.13 mi. State Highway No. 3; A. L. White, County Engr.; Jas. A. Burke, County Judge.*

Tex., Anson—Jones County plans hard-surfaced road on State Highway No. 1, from Anson to County line, approximate cost \$457,000; Devlin Engineering Co., Engr.; Owen Thomas, County Judge.

Tex., Decatur—Wise County plans 100 mi. road building; contemplates \$1,000,000 bond issue. Address County Commrs.

Tex., Denton—City let contract to W. M. Jagoe Co., to pave Fulton St. from Oak to Congress Ave., with concrete base, asphaltic cement surfacing. Address City Clk.

Tex., Franklin—Robertson County receives bids May 2 to grade and bridge 1.14 mi. State Highway No. 6, Heame Road Dist., 17.569 cu. yd. earth roadway excavation and borrow, 17,169 lbs. reinforcing steel; L. A. Peterman, County Engr.; Joe Y. McNutt, County Judge.

Tex., Galveston—City Commrs. plan raising grade in west end; contemplates \$2,000,000 bond issue; let contract to H. J. Hetkes, Galveston, at \$123,668 to pave 31st and 39th Sts. from Broadway to Boulevard, 1-in. rock asphalt on 4-in. concrete base.

Tex., Groveton—Trinity County plans road building; votes May 2 on \$1,061,000; Fred J. Berry, County Judge.

Tex., Henrietta—Clay County received low bid from J. P. Foty, Wichita Falls, at \$73,278, to grade and bridge 7.14 mi. State Highway No. 5.*

Tex., Houston—City received low bid from Gulf Bitulithic Co., 701 Foster Bldg., at \$55,285 to pave from Waugh Drive to Shepherd Drive.

Tex., Houston—Harris County Commrs. have let contract to the Texas Willite Road Construction Co., Box 1514, Houston, at \$179,296, to pave about 1 1/4 mi. Galveston highway with concrete, including 3 concrete bridges between Harrisburg and South Houston and undergrade pass.

Tex., Houston—Harris County receives bids Apr. 29 to grade Holland Ave.; plans from Howe & Wise, County Engrs., First National Bank Bldg.; Chester H. Bryan, County Judge.

Tex., Lagrange—Fayette County plans highway to connect Winchester with preposed Lagrange-Giddings Highway; J. P. Kirby, County Engr.

Tex., Laredo—Webb County let contract to Southwestern Bitulithic Co., San Antonio, at \$12,400 for bituminous topping on 8 blocks of Santa Maria St.

Tex., Lufkin—Ch. Engr., U. S. Bureau of Public Roads, Washington, D. C., approved plans for 15.64 mi. 16-ft. gravel road on State Highway No. 64, from point near Zaballa to Jasper County line, estimated cost \$190,977; G. R. Abney, County Engr.; R. A. Courtney, County Judge.

Tex., Memphis—Hall County receives bids April 24 for 5.05 mi. State Highway No. 18, Turkey-Estilline road, 61,072 cu. yd. earth roadway, excavation and borrow 10,673 lbs. reinforcing steel; C. L. Hasle, County Engr.; A. C. Hoffman, County Judge.*

Tex., Post—Garza County plans hard-surfaced road northwest from city; voted \$150,000 bonds; J. M. Boren, Judge.

Tex., Richmond—Fort Bend County plans road improvement on Highways Nos. 3, 12 and 36; tarvia or gravel surfacing; contemplates bond election. Address County Commrs.

Tex., Rockport—Aransas County let contract to M. E. Ruby, Banconia, at \$66,000, for 6.4 mi. grading, concrete bridges and mud-

shell surface on State Highway No. 57.

Tex., San Antonio—See Land Development.

Tex., San Antonio—City, John W. Tobin, Mayor, let contract to Uvalde Rock Asphalt Co., 1128 N. Mesquite St., to pave with cold rolled rock asphalt on present gravel base cross streets between Laredo and Cameron St.*

Tex., Sinton—San Patricio County let contract to M. E. Ruby, Blanco, at \$66,225 for 6.38 mi. mudshell road on State Highway No. 57.*

Tex., Sweetwater—Nolan County received low bids to grade and bridge 2 roads: 15.31 mi. State Highway No. 1, from Sweetwater to Mitchell County line; Hannah Construction Co., Waco, \$43,727; 4 bridges over 20-ft. spans, at \$43,375; 7.6 mi. macadam base, with inverted penetration bituminous topping, on State Highway No. 70, from Sweetwater south, Abbott & Jenkins, Dallas, \$87,723; 4 concrete pile bridges, Tibbets Construction Co., Fort Worth, \$26,174.*

Tex., Waco—City Comm. plans opening 11th St. from Austin to Columbus. Address City Sec. Field.

Tex., Waxahachie—State Highway Dept., Austin, approved plans for 4.83 mi. 18-ft. bituminous macadam on State Highway No. 34, from Waxahachie, west, also 3 bridges over 20-ft. spans; estimated cost \$172,000; W. A. Spaffing, County Engr.; H. F. Heland, Jr., Projest Engr.; H. R. Stovall, County Engr.

Virginia—State Highway Dept., Richmond, let contracts for 6 roads and bridge: Stafford County, 3.801 mi. concrete Richmond-Washington Highway north of Stafford Court House, H. H. George, Jr., & Son, 1831 Monument Ave., Richmond, \$129,990; Roanoke County, .586 mi. from Roanoke south and Roanoke and Franklin Counties, 3.24 mi. from Roanoke south, Warden Construction Co., Pulaski, \$78,870; Botetourt County, 4.089 mi. bituminous macadam, from Buchanan south, Pendleton Construction Co. and Southwest Construction Co., Wytheville, jointly, at \$115,186; Rockbridge and Bath Counties, 6.318 mi. grading and drainage from Goshen west, Robert Martin Co., Salem, \$80,359; Sussex County, 2.366 mi. concrete north of Homeville, Weinbrunn & Carpenter, Richmond, \$132,776; also bridge and approaches in Greenville County, over Meherrin River at Emporia, Atkisson & Williams, Scottsville, \$59,216.*

Va., Bland—Bland County Board of Supvrs. plans road building from Bland to Rocky Gap; contemplates bond election.

Va., Cape Henry—Constructing Quartermaster, Fort Monroe, receives bids Apr. 17 for 1.21 mi. 18-ft. concrete road at Fort Story, Cape Henry; plans on file.

Va., Disputanta—Prince George County Supvrs. plan improving road from Petersburg to Disputanta.

Va., Lawrenceville—Town, G. W. Wesson, Mayor, receives bids Apr. 10 for 2 mi. cement sidewalks; plans from Thomas Hardware and Furniture Co., Inc., or W. I. Heartwell, Chmn. Street Comm.

Va., Roanoke—City plans expending \$300,000 to improve 40 blocks of streets, including Gainsboro and Peach roads, Marshall, Day, Luck Aves. Address City Clerk.

Va., South Boston—See Land Development.

W. Va., Charleston—Kanawha County Court plans hard surfacing 6 roads in Charleston Dist. outside city: 1 mi. Sugar Creek; 3/4 mi. Chandler's Branch; 1/2 mi. Wilson Hollow; 1/2 mi. Magazine; Ruffner Hollow to Elk Dist. line; Woodyear's Branch to Dist. line; contingent upon \$200,000 bond election.

W. Va., Clarksburg—Chamber of Commerce, J. M. Carskadon, interested in widening Third St. between W. Main and Lee St.

W. Va., Clarksburg—Harrison County let contract to Charles S. Short, Shinnston, at \$5500 to grade and drain 1 mi. road on Shin's Run, from Saltwell to Johnson Church.*

W. Va., Clarksburg—City, H. G. Otis, City Mgr., lets contract this week for 8000 ft. 18 to 32-ft. brick on concrete base and reinforced concrete paving; T. S. Lang, City Engr.

W. Va., Fairmont—Marion County, Grant Dist., plans road improvement; contemplates \$124,927 bond election. Address County Commrs.

W. Va., Huntington—Board of Commrs. let contract to L. J. Gillespie to pave St. Louis Ave., Olive St. and other streets leading into Norway Ave. and Washington Blvd.; A. B. Maupin, City Engr.

W. Va., Huntington—City Commrs. receive bids Apr. 17 to grade, curb and pave 7 streets, avenues, roads and alleys, including Belview and Ridgewood roads, Seventeenth St.; A. B. Maupin, City Engr.; L. D. Newman, Commr. of Streets and Sewers.

W. Va., Huntington—City will receive bids soon to pave W. Seventh St., Charleston Ave. and alley between Second and Third Ave. and Eighteenth and Nineteenth St.; A. B. Maupin, County Engr.

W. Va., Ronceverte—City plans paving streets, installing filtration plant and purchasing fire equipment; voted \$100,000 bonds.

Sewer Construction

Ala., Anniston—City, Sidney J. Reeves, Mayor, will install sewer system on E. Seventh St.

Ala., Birmingham—City, A. J. Hawkins, Engr., will soon call for bids for completion of sanitary sewer in business district.

Ala., Birmingham—See Land Development.

Ala., Montgomery—See Road and Street Construction.

Ark., Fayetteville—Sewer Board of Commrs. considering extension of sewer system.

Ark., Paris—See Land Development.

D. C., Washington—District Commrs., let contract to Warren F. Brenizer Co., 101 New Work Ave., N. E., at \$70,000 for construction of 13 sewers; to W. F. Cuth Co., Inc., 3d and R Sts., N. E., at \$8000 for 2 sewers and to W. A. Pate, Jr., Rockville, Md., for 1 sewer.*

Fla., Babson Park—See Land Development.

Fla., Davenport—See Road and Street Construction.

Fla., Fort Pierce—See Land Development.

Fla., Fort Pierce—See Water Works.

Fla., Goulds—See Land Development.

Fla., Manatee—See Road and Street Construction.

Fla., Miami—City, H. E. Ross, Clk., opens bids April 14 for sanitary and storm sewers. (See Machinery Wanted—Sanitary and Storm Sewers.)

Fla., Pensacola—See Land Development.

Fla., Sebring—See Land Development.

Fla., Tampa—City, W. Lesley Brown, Mgr., receives bids April 28 for sanitary sewers. (See Machinery Wanted—Sewer System.)

Fla., Tampa—See Land Development.

Fla., Vero—City let contract to C. M. Owens Co., Jacksonville, for sewer system.*

Ga., Atlanta—See Land Development.

Ga., Rome—City considering installing sanitary sewer; H. C. Woodall, State Sanitary Engr.

Miss., Meridian—See Road and Street Construction.

Mo., Joplin—City Council let contract to Fred E. Briggs for construction of 2 sewers

Mo., St. Louis—See Land Development.

N. C., Brevard—See Land Development.

N. C., High Point—See Land Development.

N. C., Tryon—See Land Development.

Okla., Wewoka—City will soon call for bids for construction of sewers and disposal plant and for water-main extension. Address the Mayor.*

Tenn., Chattanooga—See Land Development.

Tenn., Knoxville—Moser-Quaintance Construction Co., Lebanon, Tenn., lowest bidder for construction of Oakwood sewer.*

Tenn., Nashville—See Land Development.

Tenn., St. Elmo—City, W. B. Rollins, Mayor, contemplates voting on \$40,000 sewer bonds; \$15,000 for acquisition of city park; \$5000 for equipping park.

Tex., Houston—See Water Works.

Tex., San Antonio—See Land Development.

Tex., Yorktown—City votes April 23 on \$50,000 sewer bonds; Municipal Engineering Co., Engrs., Dallas.

Va., Roanoke—City let contract to Tinsley Construction Co., Roanoke, for 9 sanitary sewer projects and to J. R. Vaughan, 1100 Maiden Lane, Vt. Hgts., Roanoke, for sewer on Melrose Ave.; cost of entire project \$275,232.*

Va., South Boston—See Land Development.

W. Va., Huntington—City let contract to J. Ullom for sewer in Burlington Road.

Telephone Systems

Ala., Mobile—City Comsn. and Geo. D. Lining, Chmn. of special committee, will probably install \$25,000 radio broadcasting station.

Fla., Dinsmore—V. C. Johnson, Pres., Chamber of Commerce, interested in organizing telephone company, establish central office, etc.

Miss., Camden—Madison County Telephone

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Co., incorporated; O. F. Mansell, J. W. Melvin.

N. C., Asheville—Southern Bell Telephone Co. will expend \$37,000 to reconstruct the entire Asheville-Salisbury toll line circuit about 98 mi.; R. N. Pfaff, local Mgr.

W. Va., Richwood—Chesapeake & Potomac Telephone Co., will expend \$18,000 rebuilding long distance line between Richwood and Sutton.

Textile Mills

Ga., Rome—McLain Textile Mills will issue \$200,000 preferred stock, increase equipment.

Ga., Rome—Brighton Mills, Inc., Passaic, N. J., reported to establish \$1,250,000 textile mill; have begun preliminary surveys for village and mill buildings.

Ga., Rossville—National Yarn Processing Co., capital \$600,000, incorporated; T. H. McKinney, 95 Crest Rd.; Tom Moore, Scott Probasco, all of Chattanooga, Tenn.; has site and will erect mercerizing and bleaching plant; 2 buildings, 1 reinforced concrete, 2 stories for winding and finishing; main building steel construction, 60x50 ft.; floor space 75,000 sq. ft.; weekly capacity 150,000 lbs. finished yarn.* (Noted under Chattanooga.)

N. C., Asheville—Sayles Finishing Co., Salisbury, R. I., let the following contracts for textile mill: for foundation work to Raymond Concrete Pile Co., New York; grading sidetrack, roads and streets and drainage ditch, H. A. Wells Construction Co., Asheville; for 75 tenement houses to W. M. Welch, Inc., Greenville, S. C.; plumbing in tenement house to Edens & Moon, Greenville; turbo-generator to General Electric Co., Schenectady, N. Y.; switchboard from Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.; condenser from C. H. Wheeler Manufacturing Co., Phila., Pa.; boilers from Babcock & Wilcox Co., 85 Liberty St., New York; stokers from Riley, Sanford Stoker Co., Worcester, Mass.; soot blowers from Diamond Power Specialty Corp., Oakland and Caniff Sts., Detroit, Mich.; chimney from Alphonso-Custodis Chimney Construction Co., 95 Nassau St., New York; J. E. Sillrine & Co., Engrs., 309 S. Main St., Greenville, S. C.*

N. C., Boone—Boone Knitting Mills, W. H. Gregg, Pres., will erect brick mill.*

N. C., Carthage—Collin G. Spencer, Chmn. Industrial Committee, Board of Trade, interested in establishment of textile mill.

N. C., Durham—Yarborough Mills, Inc., incorporated; E. S. Yarborough, Pres., Henderson, establish novelty fabric mill.

N. C., Hendersonville—W. M. Sherrad has acquired interest in Freeze-Bacon Hosiery Mill.

N. C., High Point—Chamber of Commerce reported negotiating with Northern capitalists interested in locating textile mill for client.

S. C., Barnwell—Solomon Elatt, Pres. Chamber of Commerce, negotiating with outside capitalists for location of textile mill.

S. C., Kershaw—Kershaw Cotton Mills, Leroy Springs, Pres., Lancaster, let contract to T. C. Thompson & Co., Inc., Charlotte, N. C., for building addition; increase spindleage 12,000 to 24,000; contract for machinery let.*

S. C., Spartanburg—Anderson Hosiery Mills, Anderson, reported to have acquired entire equipment of Carlton Manufacturing Co.

Tenn., Chattanooga—Dixie Mercerizing Co., Watkins St. and Belt Ry., will issue \$400,000 additional stock for new units for which contracts were lately noted awarded.*

Tenn., Englewood—Englewood Manufacturing Co., will rebuild burned textile mill.

Tenn., Murfreesboro—John N. Bagwell, Jr., Sec. Associated Retailers, reported interested in establishment of textile mill.

Tex., Houston—Houston Textile Mills increased capital \$500,000 to \$750,000.

Va., Roanoke—Viscose Corp. of Virginia, H. C. Neren, Mgr., will erect fifth unit of plant, cost \$3,500,000; unit will be in operation in 12 months.*

W. Va., Martinsburg—Berkeley Woolen Mills, W. Stephen St., H. B. McCormac, Pres., Winchester, Va., reported to erect 4 story addition to plant, double capacity.

Water Works

Ala., Birmingham—See Land Development.

Ala., Decatur—Alabama Water Co., P. B. Hale, Mgr., will erect storage water tank at Market and Washington Sts.

Ala., Girard—Alabama Water Co., F. C. Basenberg, Ch. Engr., will expend \$76,000 on improvements to plant.

Ala., Selma—Morris Knowles & Co., Engrs.,

Pittsburgh, Pa., will receive bids for erecting filtration plant to cost about \$65,000; to be built in units with capacity of 2,000,000 gal. water daily.

Ark., Paris—City approved formation of Waterworks Improvement District No. 6 and Sewer Improvement District No. 1; will issue bonds for installation of filtration tank, construction of concrete dam across Short Mountain Creek and installation of sewer system.

Fla., Babson Park—See Land Development.

Fla., Cocoa—J. B. McCrary Co., Atlanta, Ga., has contract for installation of water works system.

Fla., Fort Peirce—See Land Development.

Fla., Fort Pierce—City, C. E. Cahow, Mayor, plans expenditure of \$3,000,000 during 1925 on streets and paving, storm and sanitary sewer system; construction of water works plant on site of 20 acres; municipal dock; viaduct at Citrus Ave.; parks on Indian River; construct promenade along Moore's Creek; dredge creek; build retaining wall; move all public utilities to site of water works.

Fla., Goulds—See Land Development.

Fla., Manatee—See Road and Street Construction.

Fla., Miami—See Land Development.

Fla., Punta Gorda—City will install 207,000 gal. capacity reservoir. Address The Mayor.

Fla., Pensacola—See Land Development.

Fla., Sarasota—J. W. Crawford has contract for approximately 3 miles of water mains.

Fla., Sebring—See Land Development.

Fla., St. Augustine—City let contracts for construction of water works; Peter R. Perry, Mayor.

Fla., Tampa—See Land Development.

Fla., West Palm Beach—West Palm Beach Water Co., R. E. Dougherty, Supt., will expend \$500,000 on improvements and extensions to water works system.

Ga., Atlanta—Water Committee of City Council will construct water mains on Decker Ave.

Ga., Atlanta—See Land Development.

La., Bossier City—City, I. M. Birdwell, Clk., is receiving bids for water works improvements, including pumps, air compressor, tank and pump building; E. T. Archer & Co., Engrs., City Bank Bldg., Shreveport.

Mo., Bethany—City Council considering installing water works.

Mo., Columbia—See Land Development.

N. C., Carthage—City, R. L. Burns, Mayor, receives bids April 28 for water supply improvements and fire station. (See Machinery Wanted—Water Supply Improvements and Fire Station.)

N. C., High Point—City, Jno. W. Hedrick, Mayor, receives bids April 28 for water works improvements. (See Machinery Wanted—Water Works Improvements.)

N. C., High Point—See Land Development.

N. C., Mount Airy—Town, A. V. West, Mayor, contemplates issuing \$15,000 water and light bonds.

N. C., Brevard—See Land Development.

N. C., Hamlet—Hamlet Water Co is expending \$60,000 for improvements to water plant; erect concrete coagulating basin, 3 concrete filters, 30,000-gal. capacity water tank.

N. C., Tryon—See Land Development.

Okla., Newkirk—City voted \$115,000 water extension bonds. Address The Mayor.*

Okla., Tulsa—See Land Development.

Okla., Wewoka—See Sewer Construction.

Tenn., Chattanooga—See Land Development.

Tenn., Humboldt—City votes April 22 on \$75,000 bonds for extending and improving water and light plant. Address The Mayor.

Tenn., Knoxville—City, Louis Brownlow, Mgr., appointed Alvord, Burdick and Howson of Chicago, Ill., as Const. Engrs. for water works; \$2,500,000 available.

Tenn., Nashville—See Land Development.

Tenn., Trezevant—City contemplates \$20,000 water works bond issue. Address The Mayor.

Tex., Denton—City let contract to Q. D. Lewis, Fort Worth, for drilling well on Market Sq. in connection with water works.*

Tex., Houston—City received following low bids from A. M. Arnold, 803 White Oak St., at \$15,000 for 300,000 gal. reinforced concrete collecting tank for Scott St. water plant and for excavation work at Hermann Park; A. E. Quay Construction Co., 4717

Jackson St., for sanitary sewer on Eagle Ave., storm sewers on Boundary St. and on Louise St.*

Tex., Pilot Point—City let contract to W. M. Stockton to construct concrete settling tank.

Tex., Port Arthur—City let contract to National Cast Iron Pipe Co., Birmingham, Ala., for \$21,000 worth of cast iron water-main pipe for Model Addition.

Tex., San Antonio—See Land Development.

Va., Roanoke—Roanoke Water Works Co., Charles E. Moore, Gen. Mgr., reported as contemplating extensive improvements to plant.

Va., South Boston—See Land Development.

W. Va., Roncoveite—See Road and Street Construction.

Woodworking Plants

Ark., Fayetteville—The Phillips Box Co., capital \$10,000, incorporated; J. M. Phillips, Pres.; E. M. Ratcliff, Sec.

Fla., Hollywood—The Southern Mill & Bungalow Co., Leland K. Fishback, Pres.-Gen.-Mgr., contemplates building plant in the Lake Mabel harbor section; plans the manufacture of ready-cut houses.

Fla., Sebring—The S. R. Hart Furniture Co. increased capital to \$100,000.

Fla., St. Petersburg—Ground Bros. Manufacturing Co., 1315 First Ave., will erect \$70,000 building, 120x190 ft. steel, concrete and brick, cement floors, built-up roof; install \$30,000 equipment including moulders, rip saws, blower system, cut-off saws, steam plant, electric equipment; construction by owners.*

Ga., Toccoa—Chairs, etc.—The Currahee Furniture Co., capital \$50,000; incorporated; Geo. D. Trogden, Lyman Matheson.

Ky., Louisville—Kentucky Wagon Manufacturing Co. advises: The Continental Car Co., which was destroyed by fire, is owned and controlled by this company, have not decided as to just what will be done in reference to rebuilding same.

Mo., St. Louis—Step Ladders—Milbradt Manufacturing Co., 2410 N. Tenth St., capital \$50,000, incorporated; Gustave A. Milbradt, Clayton, Mo.; Ray C. Luecke, St. Louis.

N. C., Charlotte—Rhyno Manufacturing Co., incorporated by Daniel E. Rhyno of Lincoln, and W. Erdman Love, Charlotte; take over old Wizard plant on Holly Rd.; manufacture radio cabinets, furniture, etc.

N. C., Statesville—Murdoch Chair Co., capital \$125,000, incorporated; H. J. Murdoch, Troutmans; P. A. Morrison, Statesville.

Tex., Beaumont—Beaumont Box Manufacturing Co., Fourth and Cedar, increased capital, \$20,000 to \$25,000.

Tex., Dallas—Furniture—Olive & Myers Co., 2220 Young St., increased capital, \$500,000 to \$1,000,000.

FIRE DAMAGE

Ala., Fairfield—The Barrett Co.'s coal tar plant; loss \$125,000.

Ala., Greensboro—Herbert Childress' residence.

Ala., Jacksonville—High School Building; address School Board.

Ala., Jackson's Gap—J. O. Pottage, candy kitchen; J. W. Crouch, store; O. M. Farrow, store; White Lumber Co., office and commissary; J. E. McClendon & Co., store; postoffice; W. Y. Harrison, hotel and dwelling; J. W. Crouch, dwelling; negro pressing shop, store owned by Farrow Estate; loss \$50,000.

Ala., Mentone—Main building of Riverdale Hotel.

Ala., Mobile—Planing mill of the Magazine Hardwood Sawmill Co., at Magazine Point; loss \$30,000.

Ala., Sheffield—Two warehouses on Government Reservation at Nitrate Plant No. 2; loss \$15,000. Address Major Poyet.

Ala., Wylam (Station Ensley)—Wylam Methodist Church, Eighth Ave. near 42nd St.; loss \$25,000.

Ark., Conway—Mrs. Sam Helligers' residence; loss about \$10,000.

Ark., Eureka Springs—Blackman and Squares Buildings; loss \$23,000.

Ark., Fort Smith—Choctaw County Oil Co.'s hull house; loss \$100,000.

Ark., Little Rock—The Ayer & Lord Tie Co., plant; loss \$300,000.

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Ark., Pine Bluff—Dormitory and administration building of Arkansas Haygood Institute, near Pine Bluff; loss \$5000.

Ark., Nashville—Graysonia, Nashville & Ashdown R. R. Co.'s shops. Address C. S. Christian, Chf. Engr.

Fla., Green Cove Springs—The Dowling-Shades lumber plant, loss about \$10,000; recently purchased by Farquhar Co., Jacksonville.

Fla., Leesburg—City Hall, Mr. Harkness, City Clk.

Fla., Lake Como—Residence of Misses Gray.

Fla., Tampa—Building owned by Paul Gilmore on Bayshore Blvd. at Susquehanna Ave., including pressing shop, garage, real estate office; loss \$25,000.

Ga., Dawson—Commercial Hotel, Lee and Stonewall Sts., owned by Mrs. Lillie Williams.

Ga., New England (Mail Trenton)—Residence owned by John Austin, Sulphur Springs.

Ga., Quitman—Freight warehouse of Atlantic Coast Line Rwy.; loss \$15,000.

Ga., Shiloh—Shiloh Orphanage; L. E. White, Supt.

Ga., Waynesboro—S. G. Stewart's residence and adjoining dwelling owned by Mr. Banks; loss \$10,000.

Ky., Ashland—J. H. Renfro's residence, 3 dwellings owned by R. A. Sweeney, Theo. McNeil's residence.

Ky., Louisville—Plant of the Continental Car Co. of America, loss \$500,000.

Ky., Mount Sterling—A. J. Gatewood's Clothing Store; loss \$10,000.

Ky., Stanford—J. W. Acey's drug store; loss \$10,000.

La., Cameron—School Building; address Cameron Parish School Board.

Md., Oakland—Col. J. Marshall Dent's residence.

Md., Salisbury—R. G. Evans & Son's lumber mill; loss \$45,000.

Miss., Aberdeen—Store operated by M. Bergman; loss \$85,000.

Miss., Drew—H. T. Thennett's residence near Wade's Schoolhouse.

Miss., Hickory Flat—Lee A. Howell's residence and smokehouse.

Miss., Utica—D. C. Simmons' residence; loss \$20,000.

Miss., Water Valley—I. P. Kennedy's residence, Markette St.

Mo., Chillicothe—Classroom building at Chillicothe Business College; loss \$200,000.

Mo., Ellington—Plant of Sterling Hardwood Flooring Co. of St. Louis.

Mo., Kansas City—Anchor Furniture Co., Joseph Friedman, Mgr.; loss \$70,000.

Mo., Chillicothe—Main building of Chillicothe Business College; loss \$150,000 to \$200,000; address Allen Moore, Pres.

Mo., Sedalia—Printing plant of the Sedalia Independent; loss \$50,000.

Mo., Sedalia—Raye Apparel Shop; loss \$10,000.

Mo., St. Louis—Warehouse of D. I. Bushnell & Co., Main and Plum Sts.

N. C., Charlotte—Camp Greene warehouse building occupied by Rust Motor Co., owned by Sanitary Engineering Co.; loss \$25,000 to \$50,000.

N. C., Raleigh—School building at Caraleigh Mills; loss \$8000; address School Board.

N. C., Shelby—Lorin E. Hoyle's store building; loss \$9000.

N. C., Smithfield—Watson school building in Beulah Township; address Johnston County Board of Education.

Okla., Muskogee—Francis Hotel, 412½ W. Okmulgee St.; loss \$25,000; address John Doherty, Propr.

S. C., Clemson College—Agricultural Building at Clemson College; loss \$200,000; address Acting Pres. S. B. Earle.

S. C., Greenville—Two buildings of Martin Cotton Oil Co., Hampton Ave.; loss \$45,000.

S. C., Laurens—Four cottages owned by L. Russell Gray and additional dwelling.

S. C., Liberty—Community house of Easley Mills, No. 3.

S. C., Hickory Grove—Hopewell School Building, near Hickory Grove; loss \$44,000; address W. T. Dowdle, member Board of Trustees.

S. C., Mullins—Lonnie Norton's tenement building, N. Main St.

S. C., Rock Hill—Oscar Smarr's residence, owned by Leonard Guy; Negro Knights of

Pythias Hall and adjoining dwelling, owned by Mt. Gallant Ice Co.; all W. Black St.

Tenn., Athens—Erne Price's residence, North Athens.

Tenn., Chattanooga—Lodge rooms of Junior Order and Chattanooga Lodge of Knights of Pythias, 913½ Market St.; Barker Bros. & Whaley's clothing store; Collins store and Davidson store; loss \$50,000.

Tenn., Chattanooga—Residences of Jack Neil, 1205 Highland Park Ave., and Chas. Staffler, adjoining; loss \$25,000.

Tenn., Clarksville—Warehouse occupied by Tobacco Export Co., Adrian Lazeur, Gen. Mgr.; loss \$100,000.

Tenn., Cleveland—A. W. Foster's grocery store, Jenkins & Raines' store, Grover Tilly's restaurant.

Tenn., East Lake (Br. of Chattanooga)—Garage owned by W. R. Stotts, 4300 Avenue F; store operated by Mr. Dewitt; dwelling adjoining; loss \$10,000.

Tenn., Memphis—Jolly Motor Service Co.'s plant; loss \$50,000.

Tenn., Nashville—W. E. Steger's residence, 107 Louise Ave.; loss about \$15,000.

Tenn., Nashville—Oscar Noel's residence, Granny White Pike, 6 miles from Nashville; loss \$35,000.

Tex., Coleman—Bob Leavell's welding and radiator shop, S. C. Skidmore's blacksmith shop, Price Produce Co., residence, all owned by Mrs. W. P. Wilson; loss \$45,000.

Tex., Dallas—Apartment house, 4102-4 Colonial Ave., South Dallas, owned by W. N. Garrett; loss \$7500.

Tex., Dallas—Buildings occupied by the Southern Screen Co., the Dillon Scale Co., Lawler Doll Manufacturing Co., Jacob Schackman, ice box and cabinet manufacturing plant; total loss about \$76,000.

Tex., Darco—The Willard Hays lumber mill.

Tex., Deweyville—Peavy-Moore Lumber Co.'s \$250,000 saw mill.

Tex., Lufkin—Buildings owned by Mayor Karr and Mrs. J. H. Gibson, occupied by

Perry Bros. Racket store, Whitton Millinery, Peery Army Store, etc.; loss \$50,000.

Tex., Pleasanton—Portion of shops of the San Antonio, Uvalde & Gulf Ry. Co.; loss \$15,000.

Va., Abingdon—R. B. Creger & Bro.'s store, J. S. Gibson's residence; loss \$50,000.

Va., Nassawadox—Chas. D. Hurt's residence near Nassawadox; loss \$10,000.

Va., Norfolk—Simon Thrush's store and residence.

Va., Petersburg—Virginia Trunk & Bag Co.'s veneer mill.

Va., Portsmouth—Store operated by A. N. Hillman, at 800 Highland Ave., Brighton.

Va., Richmond—American Glass Co.'s plant; loss \$200,000.

W. Va., Fairmont—Eggleston-Paige Co.'s garage; loss \$30,000.

W. Va., Huntersville—Elihu Moore's residence.

W. Va., Huntington—Building at 834 Third Ave., owned by Lew Shackelford and occupied by Lee Monroe as restaurant with tenants above.

W. Va., MacDonald—New River Co.'s store building; loss \$50,000.

W. Va., Scarbro—Graded school building; loss \$40,000; address Fayette County Board of Education, Fayetteville.

W. Va., Wheeling—Basement and first floor of 10-story McLure Hotel; loss \$100,000; Address The Proprietor.

W. Va., Wheeling—The Wheeling Art Metal Manufacturing Co.'s factory and storage rooms, also adjoining buildings; loss \$20,000.

Damaged by Explosion

Ala., Fairfield—The Barrett Co.'s still No. 4; loss \$100,000.

Miss., Hattiesburg—Plant of the Phoenix Laundry; loss \$75,000 to \$100,000.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ala., Bessemer—Young Men's Christian Assn. is having plans drawn by T. J. Skinner, 2208 Dartmouth Ave., to finish building; cost \$100,000 to \$125,000.*

D. C., Washington—Young Women's Christian Assn., Mrs. H. E. Day, Pres., 614 E St., N. W., is having sketches drawn by A. B. Heaton, 1211 Connecticut Ave., N. W., for \$400,000 clubhouse and headquarters building, 17th and K Sts., N. W.; brick and stone, 8 stories, 60x90 ft.; swimming pool, gymnasium, cafeteria, rest and recreation rooms, etc.

Fla., Hollywood-by-the-Sea—Ancient Free and Accepted Masons reported considering erecting temple.

Fla., Hollywood-by-the-Sea—Loyal Order of Moose reported considering erecting lodge building.

La., Houma—Lenox-Hotard Post, American Legion, will improve property; erect several buildings, establish swimming pool, basement park.

La., New Orleans—Grand Lodge of Louisiana, A. F. & A. M., John A. Davilla, Grand Sec., 533-35 Iberville St., receives bids May 23 for 15-story, 100x165-ft., Masonic Temple; cost \$2,000,000, without furnishings and equipment, pile foundation, hollow and interior tile, concrete and hardwood floors, composition roof, metal doors, vaults, mail chutes, vault lights, steel sash and trim, wire glass; drawings and specifications from Sam Stone, Jr., Archt., 714 Union St.; general contract includes all work except structural steel, heating, plumbing, ventilation, oil burning equipment, electrical work, elevators, mail chutes, vault door and equipment.*

Md., Baltimore—Grand United Order of Odd Fellows will remodel building, Lanvale and McCullough Sts.; 3 stories, 65x85 ft., brick, cost \$50,000; A. I. Cassell, Archt., 707 Fairmount St., N. W., Washington, D. C.; ready for bids about April 15.

Miss., Collins—Ancient Free and Accepted Masons, E. E. Roberts, Chmn., Bldg. Comm., plans to erect \$40,000 building, Main St., Mississippi brick, 90x110 ft.; quarters for

owners, bank, hotel, real estate office, 2 stores; basement for storage.

Tenn., Athens—Ancient Free and Accepted Masons will erect \$35,000 temple, N. Jackson St.; steel, brick and concrete, 3 stories, steam heat, plate glass-front stores on first floor; Manley & Young, Archts., Knoxville.*

Tex., Anson—American Legion will erect \$45,000 hall; 2 stories, 40x50 ft., brick and concrete; David S. Castle, Archt., Abilene.

Tex., Austin—Young Women's Christian Assn., Mrs. Noyes Smith, Pres., plans to remodel structure and erect new building; \$100,000 campaign under supervision of Hewitt Campaigning Co., Spartanburg, S. C.

Tex., El Paso—Knights of Columbus will remodel building, Stanton and E. Missouri Sts.; cost \$20,000; stores on first floor, lodge quarters above; Trost & Trost, Archts., Two Republics Bldg.

Tex., San Antonio—Boy Scouts, Arthur Michael, Scout Commdr., are receiving bids, date of closing not set, for Boy Scout Training Center, Broadway and Post Ave.; 2 stories, 67x118 ft., brick, stone, hollow tile, stucco, logs, etc., cement, wood and composition tile floors, reinforced concrete foundation, cypress shaker roof, metal ceilings and doors, vaults, wire glass, steel sash and trim; \$10,000 for equipment; Harvey P. Smith, Archt., 116 W. Euclid Ave.*

Tex., San Antonio—Kelly Lodge No. 1131, A. F. & A. M., will have plans completed about April 10 and let contract about April 20 for brick and tile temple; cost \$15,000, 2 stories, 50x60 ft. concrete and pine floors, reinforced concrete foundation, Barrett roof, hollow tile, metal ceilings, ornamental cast stone; Jas. I. White, Archt., 217 Garza St.*

Tex., Waco—Labor Unions are having plans drawn by Birch D. Easterwood, Liberty Natl. Bk. Bldg., for \$60,000 Labor Temple, N. Seventh St.; 2 stories and sub-basement, 84x150 ft.; stores on first floor, clubrooms above; possibly roof garden.*

W. Va., Bluefield—Bluefield Lodge No. 269, B. P. O. E., W. M. Keister, Exalted Ruler, considers erecting lodge building, Scott St.

W. Va., Martinsburg—American Legion will erect \$25,000 American Legion Armory, John

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and Queen Sts.; about 70x90 ft., 2 stories and basement; first floor and basement for rental, armory and clubrooms on second.

Bank and Office

Ala., Ensley—Bank of Ensley will erect addition.

Ark., Little Rock—Lesser-Goldman Cotton Co., St. Louis, Mo., H. M. Bennett, Mgr., Local Branch, plans to erect 2-story brick building, Cumberland St. near Second St., for Little Rock offices; fireproof, 7000 sq. ft. floor space.

D. C., Washington—Washington Medical Building Corp., Dr. Chas. Stanley White, Pres., will erect \$550,000 medical office building, 18th and I Sts., N. W., after plans by Marcellus E. Wright, American National Bank Bldg., Richmond, Va.; 8 stories, steel reinforced concrete frame, Indiana limestone, ornamental terra cotta and brick exterior, electric elevators; stores on ground floor; financing by Shannon & Luchs, Inc.*

Fla., Jacksonville—Title & Trust Co., Chas. H. Mann, Pres., will erect 10 to 15-story office building; site purchased.

Fla., Miami Beach—Otto E. Sovereign, Bay City, Mich., will erect \$60,000 office and arcade bldg., Alton and Lincoln Rds.

Fla., Ocala—W. M. Wilson purchased Robertson Building, Oklawaha and Main Sts., and will remodel for offices and apartments.

Fla., Palatka—Dr. A. M. Steen will erect 6-story steel and brick office building on site of present residence; stores on first floor.

Fla., Tampa—First National Bank, T. C. Tallafiero, Pres., receives bids April 13 for 10-story bank and office building, site of present structure, Franklin and Madison Sts.; reinforced concrete and steel, marble, cut stone and brick, 140x50 ft.; Holmes & Winslow, Archts., 134 E. 44th St., New York, and Franklin O. Adams, Grand Theater Bldg., Asso. Archt.*

Ky., Danville—Boyle Bank & Trust Co., will erect \$100,000 building, Main St.

La., New Orleans—New Orleans Association of Commerce, 635 Commerce St., Walter Parker, Gen. Mgr., selected Diboll & Owen, Interstate Bank Bldg., as architects for altering 3-story, 46x150-ft., brick building, 311 Camp St., for headquarters.*

Md., Brooklyn (Station Baltimore)—Brooklyn-Curtis Bay Bank, Wm. N. Crisp, Pres., branch of Annapolis Banking & Trust Co., Annapolis, is having plans drawn by Wm. G. Blankie for \$40,000 building, First St. and Patapsco Ave.; 1 story, 26x60 ft., concrete floors and foundation, slate roof, concrete and hardwood floors, vault lights; items to be purchased include brick, lumber, slate, etc. Address The Pres.

Md., Baltimore—Baltimore Commercial Bank, Gwynn Crowther, Pres., acquired building of former National Bank of Commerce, 26 South St., site 60x107 ft., and will remodel for main banking office; Parker, Thomas & Rice, Archts., Union Trust Bldg.

N. C., Charlotte—First National Bank, Henry M. McAden, Pres., will erect \$300,000 group of buildings, 16-20 S. Tryon St.; fireproof, 4 stories, 60x200 ft., concrete foundation, concrete roof, hollow and interior tile, metal doors, wood block and concrete floors, vault lights, ventilators, steel sash and trim, wire glass; 1 story and mezzanine banking quarters; 3-story and basement, 40x150-ft. building for Gilmer-Moore Shoe Co.; remodel section of present structure for Woolworth store; bids on furnishings, equipment, etc., about July; items to be purchased include cement, brick, limestone and vaults; Louis H. Asbury, Realty Bldg., Charlotte, and Lockwood, Greene & Co., 24 Federal St., Boston, Mass., Charlotte, etc., Asso. Archts.*

N. C., Forest City—National Bank of Forest City will erect bank building, Public Square and Cherry Mountain St.

N. C., Greensboro—Dr. A. F. Fortune, 229 S. Elm St., and others will raze front section of old Y. M. C. A. building, Greene St., and erect medical building; remodel rear section, install elevators, tile floors; 1 and 3 stories; 4 stores, cafeteria, medical offices and 50-bed hospital.

Okla., Oklahoma City—City Real Estate Board, Chester A. Davis, Pres., considers erecting Realtors' Exchange Bldg., probably 12 stories.

Tenn., Chattanooga—Chamber of Commerce plans to lease Garnet Carter Bldg., Broad St., and remodel for quarters.

Tenn., Chattanooga—Interstate Life & Accident Insurance Co. will erect addition to home office building.

Tex., Beaumont—L. Perl, Prop. Beaumont Racket Store, 487 Pearl St., purchased building, Pearl and Bowie Sts., and will remodel;

cost \$50,000, 3 stories, elevators; owner to occupy first floor, offices above.

Tex., Corpus Christi—City National Bank is receiving bids, date of closing not set, for 6-story fireproof addition to 4-story building; cost \$100,000, reinforced concrete, 40x125 ft., cement floors, reinforced concrete foundation, 5-ply asphalt and gravel roof, hollow and interior tile, vaults, elevators, mail chutes, refrigerating equipment, ventilators, steel sash and trim, wire glass; Ralph H. Cameron, Archt., City National Bank Bldg.; Willard E. Simpson Co., Struct. Engr., National Bank of Commerce Bldg. both San Antonio.*

Tex., Galveston—A. D. Freeman, Godchaux Bldg., New Orleans, La., will remodel 3-story brick building, 21st and Strand Sts., for cotton rooms and offices; Jacob Singer, City Natl. Bank Bldg., Local Agt.; D. N. McKenzie, Archt., 2107½ E. St.

Tex., Plainview—A. B. Martin and P. J. Wooldridge contemplate erecting 84x140-ft. office building, W. Sixth St., near Broadway.

Tex., Sweetwater—West Texas Utilities Co. reported to erect \$18,000 combination office and ice and cold storage plant; 2 stories, brick and concrete.

Churches

Ala., Huntsville—First Baptist Church plans to erect \$100,000 building; seat 1000 to 1300. Address The Pastor.

Ala., Mobile—First Baptist Church, J. T. Turner, Chmn., Bldg. Comm., receives bids April 15 for 3-story Sunday School building; cost \$42,000, stone; plans and specifications from C. L. Hutchisson, Archt., 400-04 State Office Bldg.

Ala., Selma—Church Street Methodist Church will erect \$15,000 brick veneer parsonage; 8 rooms; J. W. McKie, Archt.

Ala., Wylam (Station Ensley)—Wylam Methodist Church, Rev. W. E. Guthrie, pastor, will erect \$70,000 building to replace structure noted burned; main auditorium to seat 750, Sunday school accommodate 1000.

D. C., Washington—First Congregational Church, Rev. Jas. Noble Pierce, Pastor, 10th and G Sts., N. W., is having plans drawn by H. W. Cutler, 1311 G St., N. W., for \$1,250,000 church and apartment building; 10 stories, 100x203 ft., brick and limestone; 150 apartments on upper floors.*

Fla., Palatka—First Baptist Church, J. F. Blake, Purchasing Agt., has accepted plans for \$75,000 main auditorium and Sunday school building to be erected on present site; construction under supervision of member. Address Mr. Blake.

Ga., Augusta—Curtis Baptist Church, Rev. E. C. Sheridan, Pastor, 1341 Fifteenth St., has low bid at \$83,890 from C. H. Van Ormer for 3-story auditorium, 1300 block Broad St.; 70x130 ft.; furnishings, equipment, etc., \$10,000; Scroggs & Ewing, Archts.-Constr. Supervisors, Lamar Bldg.*

Ga., Savannah—St. Pauls Episcopal Church will erect parish hall; 1 story and mezzanine, 45x90 ft., brick; Levy, Clarke & Bergen, Archts.

La., Gretna—Presbyterian Church, D. Evans, member, Bldg. Comm., will erect community house auditorium, dressing room and kitchen adjoining present structure.

Md., Baltimore—St. Marks M. E. Church receives bids April 14 for Sunday School building, Liberty Heights Ave. and Garrison Blvd.; cost \$85,000, 2 stories and basement, Clyde N. & Nelson Friz, Archts., Lexington Bldg.; following contractors estimating: B. F. Bennett Building Co., 123 S. Howard St.; Consolidated Engineering Co., 19 W. Franklin St.; Thos. Hicks & Sons, Inc., 106 W. Madison St.; Tase-Norris Co., 903 Cathedral St.; Price Construction Co., Maryland Trust Bldg.; M. A. Long Co., Hoen Bldg., Guilford and Lexington Sts.; Geo. F. Keseling, 4107 Ridgewood Ave.; C. W. Littleton & Son, 4313 Liberty Heights Ave.*

Md., Brooklyn (Station Baltimore)—St. John's Lutheran Church, care Dr. Nudorf, Gardenville (Station Baltimore), contemplates erecting 1-story, brick building, Third St. and Washington Ave.

Miss., Jackson—First Baptist Church receives bids April 16 for completion of building; foundation in; Gothic type, cost \$300,000 without furnishings, etc., concrete and steel, fireproof, 3 stories, 90x160 ft., concrete and tile floors, slate roofs, hollow and interior tile, vaults, ventilators, rolling partitions, steel sash and trim, wire glass, concrete and pile foundation; N. W. Overstreet, Archt., Overstreet Bldg.*

Mo., Festus—Baptist Church will erect \$35,000 church and Sunday-school; brick, 2 stories and basement; Bonsack & Pearce, Archts., Republic Bldg., St. Louis.

Mo., Joplin—South Joplin Christian

Church, Rev. Powell Smith, Pastor, 107 N. Moffatt St., reported to have plans about ready for bids for \$40,000 building, 19th St. and Pearl Ave.; 2 stories and basement, 80x100 ft., Carthage limestone; auditorium to seat 800; redecorate completed basement; A. C. and A. S. Michaels, Archts., 324 Miners Bank Bldg.*

Mo., Springfield—Central Christian Church, J. H. Fairman, Chmn. Bldg. Comm., 1107 North Boulevard, is having plans drawn by Hawkins & Abbott, McDaniel Bldg., for \$50,000 main auditorium, Washington and Division Sts.; 2 stories and basement, brick and stone; \$35,000 Sunday-school later.*

N. C., Balfour—Methodist Episcopal Church, South, will erect building; brick, stone foundation. Address Rev. M. Turner Smathers, Pastor, First M. E. Church, South, Hendersonville.

N. C., Elizabethtown—Christ Episcopal Church will erect \$50,000 parish house, McMorrine St., and remodel auditorium; 2 stories, 28x80 ft., brick; Benton & Benton, Archts., Wilson.

N. C., Winston-Salem—East Fourth Street Baptist Church, lately noted to erect building; has completed structure.

Okla., Durant—Methodist Church will erect \$100,000 building; accommodate 1000. Address The Pastor.

Okla., Muskogee—First Christian Church, W. H. Bickford, member, Board of Elders, will erect Boulevard Christian Church, probably East Side Blvd. and Okmulgee Ave.

S. C., Greenville—Hampton Avenue Methodist Church, Rev. H. O. Chambers, Pastor, will erect \$40,000 main auditorium to seat 1200 to 1500 and \$60,000 Sunday school accommodate 1300, W. Stone Ave. and Rutherford St.; 40 classrooms, kitchenette, etc.

Tenn., Nashville—Capers Chapel Methodist Church, Rev. C. M. Newell, Pastor, will erect \$46,000 building, 15th Ave., North, near Bethlehem Center; brick, cut stone trim, Grecian type; McKissack & McKissack, Archts.

Tenn., Nashville—Eastland Baptist Church, Rev. Britton Ross, Pastor, has broken ground for \$50,000 building; brick, cut stone trim, seat 1400.

Tenn., Paris—First Methodist Church, J. M. Freeman, Chmn., Bldg. Comm., will erect \$125,000 church and Sunday school building; Gothic type, dark face brick, stone or terra cotta trim, slate or tile roof, steam heat, dark oak woodwork in auditorium, stained glass windows, 3-manual pipe organ; auditorium to seat 1000, Sunday school 1500; Spencer & Phillips, Archts., Fidelity Bank Bldg., Memphis.*

Tex., Cuero—Baptist Church will erect \$40,000 brick and reinforced concrete building; Morris & Noonan, Archts., San Antonio.

Tex., Cuero—Lutheran Church plans to erect building. Address The Pastor.

Tex., Cuero—Methodist Church plans to erect building. Address The Pastor.

Tex., Houston—Raymond T. Richey, interested in erection of Houston Evangelical Temple.

Tex., Marshall—St. Joseph R. C. Church, M. Scully, Chmn. Bldg. Comm., will erect Spanish or Mission type building, Railroad and Grand Ave.; 48x100 ft., seat 400, cost \$35,000 to \$40,000 exclusive of pews or altar and furnishings.

Tex., Mart—First Methodist Church receives bids April 28 for brick building; cost \$40,000, 3 stories, 69x106 ft., concrete floors and foundation, gravel or iron roof, metal ceilings; furnishings, equipment, etc., \$10,000; separate bids for mechanical hot air heating, plumbing and wiring; plans from Rev. P. T. Stanford, Pastor, or Wm. C. Meador, Archt., Dan Waggoner Bldg., Fort Worth.*

Tex., San Jacinto—Methodist Church will erect \$19,000 brick and concrete building. Address The Pastor.

Tex., Sherman—Rev. T. L. Holcomb, Pastor, Baptist Church, advises not contemplating any building program at present as lately reported.*

Tex., Sonora—First Methodist Church receives bids April 15 for building; heating, plumbing and wiring in gen. contract; plans from Rev. R. W. Fisher, Pastor or from Wm. C. Meador, Archt., 910 Dan Waggoner Bldg., Fort Worth, or 8 Compton Bldg., Abilene.

Va., Roanoke—First Presbyterian Church, W. S. McClanahan, Chmn. Bldg. Comm., plans to sell present structure and erect new building, 324 W. Church Ave.

W. Va., Huntington—Calvert Negro Baptist Church, Third Ave. near Seventh St., Jake Spencer, Chmn., Bldg. Comm., is having plans drawn by Levi J. Dean for \$50,000 building, Eighth Ave. and Ninth St.; brick,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

65x90 ft.; auditorium, including balcony, seat 1200; 16 classrooms.*

City and County

Ala., Birmingham—Jefferson County plans to start excavating about May 1 on site for \$1,500,000 courthouse and jail, Woodrow Wilson Park, with convict labor; cost \$40,000 to \$50,000; 8 stories, reinforced concrete faced with granite and limestone; jail on 2 upper floors; Harry B. Wheelock, Archt., Steiner Bldg., will probably have plans ready about Aug. 1; Board of Revenue receives bids about April 17 for sale of present courthouse.*

Fla., Newton—Baker County Commrs. plan to remodel courthouse.

Fla., Palm Beach—Town. Cooper C. Light-brown, Mayor, voted \$75,000 town hall bonds; construction bids received April 14; cost about \$100,000, Spanish type; Harvey & Clarke Archts.

Fla., West Palm Beach—Palm Beach County, R. P. Robbins, Judge, considers erecting courthouse addition.

Fla., Sarasota—Sarasota County Board of Commrs. selected Dwight Jas. Baum, Spuyten Duyvil Pkwy. and Waldo Ave., New York, and Sarasota, as architect for preliminary plans for courthouse; tentative plans call for 2 buildings connected by colonnade, 90-ft. campanile, Spanish tile roof; will call election on bonds.*

Fla., Sarasota—Sarasota County plans to establish new Fair Grounds on 91-acre tract, Fruitville Rd.; erect exhibit buildings. Address Sarasota County Fair Assn.

Tex., San Antonio—City, John W. Tobin, Mayor, is having plans drawn by Emmett T. Jackson, Chandler Bldg., for \$30,000 natural stone and reinforced concrete bath house, Brackenridge Park; 50 to 75 rooms.*

Fla., Tampa—City, W. L. Lowry, St. City Commr., receives bids May 5 for fireproof municipal auditorium; cost \$250,000, steel frame, brick walls, 2 stories, hollow and interior tile, ornamental terra cotta, steel sash, wire glass; F. J. Kennard & Son, Krause Bldg., and F. O. Adams, Jr., Grand Theatre Bldg., Archts.*

Md., Baltimore—Enoch Pratt Free Library, Dr. Bernard C. Steiner, Librarian, Mulberry St. near Park Ave., plans to erect Branch 26, Belair Rd.; cost \$45,000, 1 story, about 60x40 ft., brick and steel; Thos. Machen, Archt., Fidelity Bldg.

Mo., Independence—City will probably soon call for bids on \$100,000 memorial building, Maple Ave. and Pleasant St., after plans by Alonzo H. Gentry; English Georgian type, brick, Indiana limestone trim, 150x122 ft., height equivalent to 2½ stories and basement; auditorium, convertible into gymnasium, to seat 1800, balcony, stage and dressing rooms; 4x84 ft. basketball court; public dining room, kitchen, lockers, rest rooms, etc., in basement.*

Mo., Kansas City—Law Enforcement Association of Kansas City, H. R. Ennis, Chmn., Inspection Comm., is interested in \$400,000 bond issue: \$150,000 to erect 72 additional cells to accommodate 154 and provide hospital facilities at jail; \$250,000 for 100-bed hospital at County Farm.

N. C., Carthage—City, R. L. Burns, Mayor, opens bids April 28 for fire station. (See Machinery Wanted—Water Supply Improvements and Fire Station.)

N. C., Durham—Milburn, Heister & Co., Durham, and Union Savings Bank Bldg., Washington, D. C., will have plans ready April 15 for bids on fireproof municipal auditorium and theater building; cost \$250,000, brick, stone and terra cotta, 3 stories, 70x120 ft., composition, wood and mastic floors, concrete foundation, Johns-Manville and Barrett roofs, hollow and interior tile, metal ceilings and doors, vaults, mail chutes, ventilators, steel sash and trim, wire glass; furnishings, equipment, etc., \$25,000 to \$50,000; items to be purchased include seats, scenery, asbestos fire curtain.*

N. C., Greensboro—American Legion, Allen Preyer, Chmn., Stadium Comm., is having preliminary plans drawn by Robert Cridland, 306 S. Smedly St., Philadelphia, for \$50,000 to \$100,000 stadium to accommodate 5000 to 10,000; plan fund campaign; P. C. Painter, City Mgr.*

N. C., Yanceyville—Caswell County Commissioners plan to erect poor home, Danville-Yanceyville Rd.; about 25 rooms.

Tex., Brownfield—Terry County, H. R. Winston, Judge, is having preliminary plans drawn by Peters & Haynes, Lubbock, for \$120,000 courthouse and jail building; brick, stone and reinforced concrete, fireproof, 3 stories and part basement.*

Tex., Floydada—Floyd County, E. C. Nelson, Jr., Judge, considers erecting jail.

Tex., Italy—City, R. G. Dohoney, Mayor, will probably call election on about \$60,000 city hall bonds.

Tex., Muleshoe—Bailey County Commissioners' Court, Wm. G. Kennedy, County Judge, receives bids April 20 for erection, including heating, plumbing and wiring, of courthouse; cost \$60,000; plans and specifications from Butler Co., Archts., Oklahoma City, Okla., and Lubbock, Tex.*

Tex., Stamford—City, B. P. Davenport, Mayor, ready for bids about April 25 for \$40,000 municipal auditorium; 2 stories, 100x175 ft., brick and concrete; David S. Castle Co., Archt., 26-31 Radford Bldg., Abilene.

Tex., Wheeler—Wheeler County, A. C. Wood, County Judge, votes April 27 on \$80,000 courthouse bonds; brick, stone and concrete.

Va., Tazewell—Tazewell County Board of Supervisors plans to erect children's detention home.

Dwellings

Ala., Birmingham—Mrs. E. B. Crawford, 3203 Glenn Ave., will erect \$10,000 residence, 34th St. and Cliff Rd.

Ala., Birmingham—C. H. McCauley will erect \$12,000 residence, Clairmont Ave. and Lynwood Rd.

Ala., Birmingham—A. Roobin will erect \$14,000 residence, 925 Conroy Rd.

Ala., Greensboro—Herbert Childress reported to rebuild residence noted burned.

D. C., Washington—Chas. Facchine, care L. T. Rouleau, Archt., Phillips Bldg., 15th and K Sts., will erect \$35,000 residence, 1218 Perry St., N. E.; 3 stories, 61x59 ft., brick, concrete and frame.

Fla., Fort Pierce—J. B. Howard, Cashr., Fort Pierce Bank & Trust Co., will erect residence, Maravilla subdivision.

Fla., Hollywood—J. S. Matson, Prop., Flora Apts., will erect \$15,000 residence, Inland Waterways; Hampton & Ehmman, Archts., Miami.

Fla., Homestead—Wm. Fiske, Fiske Manor, will erect 7 concrete and stucco dwellings.

Fla., Miami—H. George Fink, 156 E. Flagler St., prepared plans for 2 dwellings, Avenue Castile near Columbus Blvd., Coral Gables; 6 rooms and bath, sleeping porch, garage, Byzantine columns, ornamental iron work.

Fla., Miami—Lilburn R. Railey will erect \$16,000 cement block residence, S. W. 12th St. and 13th Ave.

Fla., Miami—Carl G. Fisher, care Carl G. Fisher Properties, will erect residence, La Gorce Island.

Fla., Miami—J. A. Trost will erect 3 one-story dwellings, Avenue Medina near Capri St., Avenue San Miguel near Columbus Blvd. and Avenue Messina near Madrid St.

Fla., Okeechobee City—El Mira Sol Building Assn., John H. Coulter, Pres., will erect 10 Spanish type dwellings, El Mira Sol; probably let contract to Geo. Rogers, 29 Broadway, New York and Okeechobee City.

Fla., Ocala—B. Goldman will erect tile and stucco bungalow, Laurel St., Palmetto Park addition; A. C. Leseberg, Contr., Tampa.

Fla., Sarasota—Alfred C. Clas, care Clas, Shepherd & Clas, Archts., 415 Milwaukee St., Milwaukee, Wis., will erect winter residence, Ballentine Manor.

Fla., Sarasota—Paul R. Goddard, Washington, Ill., and Jacob A. Faber, Peoria, Ill., will each erect \$10,000 to \$15,000 residence, Sunset Park section.

Fla., Sebring—Vincent S. Hall, West Palm Beach, will erect residence, Lakeview Drive, South.

Fla., St. Augustine—Claude Meeker, Columbus, O., present address, Hotel Ponce de Leon, St. Augustine, plans to erect residence, Anastasia Hills.

Fla., Tampa—Frank Bryson and others, plan to erect 500 dwellings; 20 in first unit.

Ga., Savannah—M. J. Pindar will erect \$11,000 brick veneer residence, 201 45th St.

Ky., Harvettown—Harvey Coal Co., will erect 10 miners' dwellings; contract at once.

Ky., Whitesburg—Elkhorn-Jellico Coal Co. will erect 10 miners' dwellings; contract at once.

La., New Orleans—A. H. Baker will repair and erect addition to residence, 624 Audubon St.; cost \$10,100.

La., New Orleans—J. V. Bruce will erect 2 double cottages; 8 rooms, porches, cost \$6000 each; will also alter dwelling, 5730 Dauphine St., cost \$1500; E. M. Reynes, Archt., 1418 Bourbon St.

La., New Orleans—H. S. Rood, 900 Fillmore St., will erect double cottage, Lizardi and Derbigny Sts.

La., New Orleans—Victor C. Howard, 1676 N. Broad St., opens bids April 9 at office Lockett & Chachere, Archts., 521 Baronne St., for Colonial type residence, Canal St. near Murat St.; tile roof, tile floors, automatic steam oil burning heating system.*

La., New Orleans—R. Roulet & Son, 2320 Canal St., will convert double 2-story building, 2030 Canal St., into 4-apartment duplex; cost \$10,000; E. M. Reynes, Archt., 1418 Bourbon St.

Md., Baltimore—Arthur L. Hamann, will erect cottage, Linhigh.

Md., Baltimore—Wells Construction Co., 3528 Old York Rd., will erect 6 brick dwellings, St. Paul St. near 31st St.; 3 stories, 8 rooms and 3 baths.

Md., Baltimore—C. Lambert and Jos. Ritter, Jr., Builders, 306 Rockdale Ave., is laying foundations for 8 concrete block dwellings; 2 stories, 15.6x40 ft., wood floors, composition roof; total cost \$25,000; plans by Mr. Ritter.

Md., Baltimore—Homeland Heights Co. purchased tract, Park Heights and Glen Aves., and is reported to erect number of dwellings.

Md., Baltimore—Jos. A. Meini, 3517 Gwynn Oak Ave., will erect \$11,000 residence, 3519 Gwynn Oak Ave.; clapboard, 2 stories, 27x45 ft.

Md., Baltimore—Mervis & Levensohn will erect several brick dwellings, N. E. cor. Park Heights and Ingleside Aves.; 3 stories; total cost \$22,000.

Md., Baltimore—Jas. D. Ogden will erect 18 dwellings, N. W. cor. Arlington and Fairview Aves.; 2 stories, 18x32 ft., brick; total cost \$50,000.

Md., Baltimore—Geo. M. White, Drury La. and Windsor Mill Rd., will erect \$10,000 residence, N. side St. Dunstan's Rd. W. of Bellona Ave.; clapboard, 32 ft. frontage.

Md., Baltimore—Roland Park-Homeland Co., 18 E. Lexington St., will supervise erection of 4 dwellings in Homeland; total cost about \$80,000; Edw. L. Palmer, Jr., Mottu & White, Wm. H. Emory, Jr., and Buckler & Fenhagen, Archts.

Md., Baltimore—Milton R. Lerch, 5206 Harford Rd., will erect 100 to 130 cottages, Harford Rd. and Maple Ave.

Md., Baltimore—Addison E. Wilson, 5 W. Camden St., will erect \$25,000 residence, 207 Chancery St.; 2½ stories, about 30x40 ft.; W. H. Emory, Archt., Munsey Bldg.

Md., Catonsville (Branch Baltimore)—Saml. D. Harrison, 506 N. Pulaski St., Baltimore, will erect 5 cottages, Oak Crest.

Mo., Clayton (Ind. Branch St. Louis)—Davis Realty & Development Co. will erect \$15,000 brick dwelling, block 20, Davis Place; 63x29 ft.; J. W. Leigh, Archt.

Mo., Fulton—Francis Board will erect brick bungalow, Westminster Ave.

Mo., Kansas City—Lewis Schutte, care Schutte Lumber Co., 30th St. and S. W. Blvd., will erect \$25,000 residence, 56th St. near Bellevue St.; 2 stories and basement, 73x33 ft., frame, brick veneer and stucco; G. W. Swehla, Archt., Westport Bank Bldg.

Mo., St. Louis—D. O. C. Deckert, Pres.-Mgr., St. Louis Candle & Wax Co., 3840 St. Louis Ave., will erect English type residence and garage, W. of Bellefontaine Rd.; stucco on hollow tile, 2 stories and basement; J. L. Bowling, Archt., Arcade Bldg.

Mo., St. Louis—C. E. Renfro, 1120 Ward Pkwy., will erect stone, brick veneer, stucco and half timber residence, Stratford Rd. and State Line; 2 stories and basement; C. E. Shepherd, Archt., Huntzinger Bldg.

N. C., Charlotte—J. W. Barber, 1402 E. Fourth St., will erect \$11,000 residence, 1015 E. Fifth St.

N. C., Charlotte—H. S. Brown, 122 E. Morehead St., will erect \$15,000 residence, Dilworth Rd. near Morehead St.

N. C., Charlotte—E. F. Gallagher, Monroe Road, will erect 1 triplex and 1 duplex frame dwellings, 200 block Beech Ave.

N. C., Charlotte—Miss Mattie Orr will erect \$18,000 duplex residence, 2000 block E. 8th St.

N. C., Shelby—J. N. Dellinger plans to erect residence, Frank Ware Development, West Shelby.

N. C., Shelby—J. G. Dudley will erect residence, Cleveland Springs.

Okla., Oklahoma City—J. M. and Kathleen Hamilton will erect \$10,250 duplex, 2925 S. Robinson St.

Okla., Oklahoma City—Lee Woodruff, Bethany St., will erect \$13,000 duplex, 439-45 W. 19th St.

Okl., Tulsa—Ben C. Conner, Atty., Kennedy Bldg., is erecting \$12,500 residence, 2404 S. Troost St.

Okl., Tulsa—Florence W. Lash has started work on \$17,000 residence, 1230 S. Newport St.

S. C., Greenville—Geo. C. Wood will erect \$12,000 residence, E. Earle St.

Tenn., Dyersburg—King Rodgers will erect 1½-story residence; Geo. Mahan, Jr., Archt., Memphis.

Tex., Dallas—J. A. Heiskell, 1115 Hampton Rd., will erect 17 frame dwellings, 2400 and 2500 blocks Grafton St.; total cost \$36,000.

Tex., Dallas—N. B. Weeb will erect \$20,000 Normandy type residence, Beverly Drive and Auburndale Ave., Highland Park; stucco, hollow tile and half-timber; David R. Williams, S. W. Life Bldg., Archt.

Tex., Houston—D. O. Miller, 1312 Peden St., will erect 2-story frame and brick veneer dwelling, 2011 Dunstan Rd.; cost about \$10,000.

Tex., Panhandle—Wallace W. Hill, Bldr., will erect residence.

Tex., Panhandle—Chas. Upham, County Clk., will erect residence.

Tex., Sherman—Edgar Peveto will erect \$15,000 residence, S. Elm St.; 2 stories, brick veneer.

Tex., Waco—J. Albert Greene, Mgr., Geyser Ice Co., 919 Webster Ave., will erect \$15,000 English type residence, 20th and Maple Aves.; brick, slate roof, plaster walls, 7 rooms; Birch D. Easterwood, Archt., Liberty Natl. Bk. Bldg.

W. Va., Charleston—Carl N. Hand will remodel former country club for summer residence.

W. Va., Huntington—W. O. Lookebill, 1530 Third Ave., will erect two \$5000 dwellings, Enslow Park.

W. Va., Huntington—Morris Josselson, Day & Night Bank Bldg., will erect 6 brick dwellings, Fourth St., W., near Tenth Ave.; 2 stories, 6 rooms; total cost \$24,000.

W. Va., Huntington—C. B. Turner, R. and P. Bldg., will erect 5 dwellings, 12th St. near Washington Bvd.; 7 rooms, brick, cost \$5000 each, garage \$300.

Government and State

Ala., Montgomery—Treasury Dept., Jas. A. Wetmore, 5506 13th St. N. W., Act. Supervising Architect, Washington, D. C., will erect \$60,000 quarantine station, Sand Island, Mobile Bay.

Ark., Russellville—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids April 28, including mechanical equipment and approaches, for 1-story and mezzanine, non-fireproof post-office building, about 4300 sq. ft. ground area; cost about \$45,000; drawings and specifications from Custodian at site or from office Supervising Archt.

Fla., New Smyrna—Edw. F. Wilson will erect building, Sams Ave. near Canal St., and lease to Government for post office; 3600 sq. ft. floor space.

Ga., Augusta—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., reported to erect \$25,000 tile and stucco addition to postoffice.

Miss., Gulfport—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids April 20 for wrecking, repairing and painting Gulf (Ship Island) Quarantine Station; specifications from Custodian at site or from office Supervising Archt.

N. C., Raleigh—R. A. Doughton, Commr. of Revenue, receives bids April 14 for fireproof office building for Department of Revenue, Morgan and Salisbury Sts.; about 100x150 ft., court in rear, 5 stories and basement, marble, concrete and hardwood floors, tile and composition roof, hollow and interior tile, vaults, metal doors, mail chutes, steel sash and trim, wire glass; cost, without furnishings, \$450,000; contracts already let for concrete foundations, basement walls, steel frame, exterior stone; plans and specifications from Atwood & Nash, Inc., Archts.-Engrs., Chapel Hill.*

W. Va., Alderson—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., will draw plans for Federal industrial institution for women; tentative plans call for 8 buildings at approximate cost of \$2,000,000.*

Hospitals, Sanitariums, Etc.

D. C., Washington—Ballinger & Co., 105 S. 12th St., Philadelphia, are architects for \$350,000 maternity building addition to hospital, Pierce and N. Capitol Sts.; 4 stories

and basement, 43x155 ft., reinforced concrete and brick, stone trim.

D. C., Georgetown (Station Washington)—Georgetown Hospital, Sister Rodriguez, Mother Superior, will erect \$250,000 addition, 35th St. and Prospect Ave., N. W.; 6 stories, 60x60 ft., brick and stone, fireproof; Voft & Didden, Archts., Home Life Bldg.

Fla., Bartow—City voted \$311,000 bonds, including \$100,000 for hospital. Address City Engr.*

Fla., West Palm Beach—Good Samaritan Hospital, Dr. W. E. Van Ledingham, Supt., is having plans drawn by Harvey & Clarke for \$175,000 to \$200,000 addition; 50-ft. two-story building with 50-ft. two-story wing.

Ky., Glasgow—Judge Basil Richardson is Chmn. Campaign Comm., for community hospital.

Ky., Lexington—Imperial Council, A. A. O. N. M. S., Forrest Adair, Sec., Board of Trustees, Atlanta, Ga., care Oleika Temple, will erect \$60,000 to \$75,000 hospital for crippled children; use operating rooms and heating plant of Good Samaritan Hospital; Hentz, Reid & Adler, Archts., Atlanta.

Mo., California—Dr. L. L. Latham will erect \$30,000 sanitarium.

Mo., Excelsior Springs—S. E. Ball will erect \$65,000 addition to sanitarium; 5 stories and basement, 120x40 ft., native stone; L. O. Willis, Archt., 3130 Central St., Kansas City.

N. C., Durham—Milburn, Heister & Co., Archts., Durham, and Union Savings Bank Bldg., Washington, D. C., will have plans ready April 10 for bids on fireproof eye and ear infirmary, W. Main St., for Drs. McPherson & Kerns, Trust Bldg.; cost \$50,000, 3 stories and basement, 40x80 ft., composition tile, wood and concrete floors, concrete foundation, slate roof, hollow and interior tile, metal doors, ventilators, ornamental terra cotta, steel sash and trim, wire glass, 1 hospital elevator; furnishings, equipment, etc., \$5000.*

N. C., Oteen—United States Veterans Bureau, Frank T. Hines, Director, Arlington Bldg., Washington, D. C., reported preparing plans for fireproof kitchen building at U. S. Veterans Hospital No. 60, Dr. Herbert E. Whitledge, Medical Officer in Charge; will probably erect diagnostic building during 1926.

Okl., Frederick—Drs. O. G. Bacon and R. L. Fisher will erect 30-room hospital, Fliral Ave. and Ninth St.

Okl., Frederick—Dr. T. F. Spurgeon and associates will erect new building for Tillman County Hospital.

Okl., Norman—State Board of Public Affairs, Carl L. Rice, Chmn., Oklahoma City, receives bids April 11 for 2 additional stories to Women's Bldg. No. 3, Central State Hospital; plans and specifications on file with Board.

Tex., Dallas—Dallas Baby Camp and Hospital, Dee E. Humphrey, Chmn., will let contract in about 1 month for \$75,000 Dallas Baby Hospital; fireproof, concrete and steel, 2 stories and basement, 60x100 ft., concrete, tile and linoleum floors, wire glass, ornamental terra cotta, hollow tile, plaster board, vaults, vault lights, ventilators, steel sash and trim, concrete foundation, tar and gravel roof; furnishings, equipment, etc., \$25,000; items to be purchased include concrete material, waterproofing, metal doors, laths, forms and sash, steel work, brick and tile, heating and plumbing and electric work; Eugene E. Davis, Archt., Southwestern Life Bldg., Address Mr. Humphrey, 1815 Cooms St.*

Tex., Knox—David S. Castle Co., 26-31 Radford Bldg., Abilene, is drawing plans for \$60,000 sanitarium; fireproof, brick and reinforced concrete.

Tex., Stamford—Drs. Hudson, Southern & Bunkley will erect \$30,000 brick and concrete nurses' home; David S. Castle Co., 26-31 Radford Bldg., Abilene.

Va., Richmond—Virginia Home for Incurables, Robinson and Broad Sts., Mrs. Frank D. Epps, Vice-Pres., is having plans drawn by Baskerville & Lambert, Travelers Bldg., for \$20,000 wing; accommodate 15.

Hotels and Apartments

Ala., Mentone—Mrs. Mitchell announced plans for rebuilding hotel, recently burned.

Ala., Selma—August Rothchild will erect \$30,000, Spanish type apartment building, Arenal Place; 4 apartments of 7 rooms each, red tile roof.

Ark., Mountain Home—P. W. Hill, owner of Commercial Hotel, plans 6-room addition.

D. C., Washington—First Congregational Church, Rev. Jas. Noble Pierce, Pastor, Tenth

and G Sts. N. W., is having sketches drawn by H. W. Cutler, 1311 G St. N. W., for \$1,250,000 church and apartment building; 10 stories, 100x203-ft., brick and limestone; 150 apartments. (See Buildings Proposed—Churches.)*

Fla., Dade City—E. E. Calloway, Lakeland, presented proposition for erecting \$3,000,000 tourist hotel on summit Le Heup Hill; C. A. Lock, E. S. Slough and C. H. Rerick compose committee to obtain options.

Fla., Fort Lauderdale—G. Frank Croissant plans to start work during summer on \$300,000 hotel.

Fla., Fort Pierce—Tarsen & Hansen will erect \$15,000, 8-apartment building; concrete and tile, 8 bathrooms, tile floors; John N. Sherwood, Archt., 208 Sunrise Bldg.

Fla., Fort Pierce—J. A. Smith, 62 S. Summit Ave., and J. C. Watkins, 605 W. Market St., both Greensboro, N. C., have plans by William W. Hatcher and Lawrence S. Funke, Archts., for \$125,000, 3-story, fireproof, Spanish-type hotel building, S. 2nd and Boston Sts.*

Fla., Leesburg—Chamber of Commerce promoting erection of hotel building; considering 2 tentative plans.

Fla., Miami—J. D. Culmer will erect two \$47,000, 3-story, cement block, 33x78-ft. 12-family apartment buildings, S. W. 5th St. and N. W. 2nd St.

Fla., Miami—Mrs. Lena E. Deppe will erect \$20,000, 36x82-ft., 2-story apartment house, N. E. 20th Terrace.

Fla., Miami—Charles T. Lundstrom will erect two 2-story, 85x39-ft. apartment buildings, N. E. 28th St.

Fla., Miami—C. S. Phillips will erect \$45,000, 3-story, cement block, 12-family apartment building, N. W. 3rd St.

Fla., Miami—J. S. Sieler will erect \$10,000, 2-story, cement block, 4-family apartment house, S. W. 5th St.

Fla., Miami—J. C. Rogers, 977 N. W. 3rd St., reported to erect \$25,000 apartment house, S. W. Sixth St. between 13th and 14th Aves.

Fla., Ocala—J. W. Phillips plans to erect 5-room apartments on W. Broadway. (See Buildings Proposed—Theaters.)

Fla., Ocala—W. M. Wilson purchased Holder Place on Fort King St., contemplates erecting 3 or 4 apartments.

Fla., Palm Beach—August F. Altieri, 300 Madison Ave., New York, leased lot fronting Bradley Place and extending from Seminole Ave. to Everglade Ave.; plans to erect \$600,000, Spanish-design apartment building; 100 rooms and 16 stories.

Fla., Pompano—E. N. Jelks, M. W. Garbutt, Fitzgerald, Ga., and H. C. Jelks, Fort Lauderdale, announced plans for erection this summer of \$65,000, 3-story, 30-room, hollow tile with stucco finish hotel, to be known as Wahoo Beach Fishing Lodge; F. L. Abreu, Archt., Fort Lauderdale.

Fla., St. Petersburg—Nick Dennis, Propr. of Park Cafeteria, will start work in 30 days on 8-story, \$250,000, 50x100-ft., fireproof, brick hotel building, 326-8 First Ave., north; include elevators and laundry; considering construction of roof garden.

Fla., St. Petersburg—Mrs. E. H. Coe will erect \$15,000, 2-story, frame, 16-room, 5-apartment building, 9th Ave., North, and 7th St.

Fla., Stuart—Mrs. R. H. Knapp opened bids for \$18,000, 8-apartment building; 8 baths, tile floors; John N. Sherwood, Archt., 208 Sunrise Bldg., Fort Pierce.

Fla., Tampa—N. G. Arfaras representing syndicate, purchased property, Franklin and Washington Sts., reported to erect 16-story hotel building.

Fla., Tampa—J. R. Sparling, 1725 Grand Central Ave., will erect 4 apartment buildings, work to start in 3 weeks.

Fla., Umatilla—Allen P. Beach, Basin Harbor Lodge, Vergennes, Vermont, purchased Buena Vista Hotel, will start work September 15 on inside repairs and alterations; will be known as Umatilla Lodge; 3 stories, 36x121 and 24x42 ft., shingle roof; major items to be purchased include dining room furniture, wicker for lobby, boats and canoes, plumbing, heating system. (See Machinery Wanted—Concrete Work.)*

Fla., Vero—Herman Zeuch, Davenport, Iowa, and M. H. Christison, Moline, Ill., will erect \$75,000, 3-story, concrete and interlocking tile apartment building, N. E. Cor. Osceola Blvd. and Cherokee Ave.; ceramic tile floors, 33 bathrooms; John N. Sherwood, Archt., 208 Sunrise Bldg., Fort Pierce; bids closed April 10.*

Fla., Vero—R. T. Culver, Sebastian, purchased lot on Dixie Highway, plans to erect apartment house.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Fla., West Palm Beach—Paris Singer, New York, reported announced plans for \$25,000-000 development project in connection with ocean resort plans; include \$5,000,000 hotel, aerial inlet ferry, etc.

Fla., Winter Haven—H. B. Mabson, Cumberland, Md., and Winter Haven, purchased property at N. Fifth St. and W. Lake Ave.; announced plans for 3-story, fireproof, 54-guest room commercial hotel.

Ga., Atlanta—Baron & Wilson, operators of Robert Fulton Hotel, purchased lot adjoining, 45x100 ft., as site for proposed 14-story annex; contain 200 rooms, banquet hall and ballroom to seat 300 people; banquet hall addition will be erected first.

Ga., Savannah—J. B. Pound, Pres. Pound Hotel Corp., announced plans in progress for 17-story annex to Savannah Hotel.

La., Shreveport—T. P. Florida, E. K. Tigrett and associates of Memphis and Little Rock have plans in progress by G. H. Whittenberg of Whittenberg, Deloney & Watts, Little Rock; will start work April 15 on \$550,000, 7-story apartment hotel, Elizabeth and Margaret Place; 52 apartments of 2 and 3 stories, lobby on first floor with 2 parlors connecting.

Md., Baltimore—Harry E. West, 2905 Mt. Holly St., will erect \$36,000, 3-story, brick and stucco, 6-suite apartment building, 3913 Hawthorne Road.

Md., Baltimore—Sol R. Hyman, 3928 Dalrymple Ave., and Jacob Filzer contemplate erecting \$200,000, 3-story and basement, brick, 21-suite apartment building, S. E. cor. Auchentoroly Terrace and Pennsylvania Ave.; work to start in fall.

Miss., Biloxi—Ex-Gov. Lee M. Russell, Gulfport, purchased Hotel Biloxi; reported to replace with larger structure.

Mo., Jefferson City—Col. Jos. A. Huegel plans to erect addition to Central Hotel.

N. C., Greensboro—C. O. Yoakum, New York City, and associates purchased property Davie and East Market Sts.; corporation will be formed to include J. E. Latham, Dixie Bldg., with \$1,200,000 capital stock, for erection of 250 to 300-room hotel.

Okl., Oklahoma City—C. M. Marshall, S. W. National Bank Bldg., will erect \$10,000 apartment building, 120-122½ W. 24th St., and \$300 garage, 514 W. Fourth St.

Okl., Muskogee—Sidney Born plans to erect \$25,000 to \$30,000 apartment building.

Tenn., Athens—L. J. Cambren, Contr., and W. H. Sears, Archt., both Chattanooga, secured option on property 147x168 ft., extending from N. Jackson to N. White St.; represent Fred Cantrell, J. L. Graham, F. Marcus, O. J. Hubuch and J. A. Stein, all Chattanooga, who contemplate incorporating with \$140,000 capitalization; plans call for 4-story building, 147 ft. frontage, brick, steel and concrete, fireproof, 100 rooms, 4 store rooms on ground floor, garage in rear.

Tenn., Chattanooga—G. W. Fillauer, Propr. of Red Star Pharmacy, 930 E. 3rd St., will erect \$100,000, 140x85-ft., 3-story, brick and concrete, faced with white brick and trimmed in terra cotta building, N. E. Cor. McCallie and Central Aves., to consist of 9 storerooms and 20 apartments; Stewart Construction Co., Archts., Frgr. Bldg.

Tenn., Nashville—R. D. Cooper, Ind. Bldg., will erect \$10,000, 2-story, 16-room, brick veneer, 4-apartment building, 18th and Acklen Aves.

Tenn., Paris—Krider & Sons, Archts., completed plans, will soon let contract for Holland Apartments, S. Poplar St.; 3 stories, ground floor for fuel room, janitor's room, kitchen, dining room, lobby and 5 rooms, matron's quarters, etc.

Tex., Amarillo—Amarillo Hotel Co. taking bids for \$135,000, 4-story and basement, 93x36 ft., 54-room, brick, stone and reinforced concrete, fireproof addition to hotel building, 3rd St.; Shepard & Wiser, Archts., R. A. Long Bldg., Kansas City, Mo.

Tex., Corpus Christi—Mrs. G. M. Smith let contract for \$35,000, 2-story, hollow tile and stucco, 117x36 ft., 12-apartment building, Water St.; A. A. Callaway, Archt.

Tex., Dallas—Boone-Hall Lumber Co., 1206 S. Beckley St., will erect \$50,000, brick veneer, 16-apartment building, 1805-7 Park Row.

Tex., Dallas—B. W. Gordon, 5401 Columbia, will erect \$11,000, 17-room, brick veneer, 4-apartment building, 112-4 Orient St.

Tex., Dallas—T. M. Petty will erect \$10,000, 12-room, brick veneer, 2-apartment building, 6011-13 Tremont St.

Tex., Dallas—J. D. Wade will erect two \$20,000, 20-room, brick veneer, 4-apartment buildings, 215-5-7-9 W. 8th St.

Tex., Dallas—Roy A. Nelson Co., S. W. Life Bldg., announced plans for \$1,500,000 co-

operative apartment building, Oak Lawn Ave.; 14 stories, 115 apartments of 1 to 4 and 5 rooms, fireproof, reinforced concrete; Henry Coke Knight, Archt.; A. E. Thomas, Asso. Archt., 2009 Earl St.

Tex., Houston—Wade Sheffield, 331 Pecore St., will erect 2-story, frame, stucco apartment house, 4 rooms and bath each, and garage, 3715 Peagan St., Woodland Annex Addition; \$10,000.

Tex., Weslaco—J. J. Burk will erect \$60,000, 3-story, brick and reinforced concrete, fireproof hotel building.

Va., Martinsville—Henry Hotel, Inc., plans to start work soon on hotel addition.

W. Va., Huntington—H. E. and C. E. Hines, 940 5th Ave., will erect \$36,000, 3-story, brick and steel store and apartment building, Fifth Ave. near Ninth St.; Meador & Handloser, 1139 4th Ave., Archts.

W. Va., Huntington—C. L. Johnson will erect \$30,000, 3-story, 30x113 ft., store and apartment building, 822 Sixth Ave.

W. Va., Martinsburg—Hotel Berkeley, Peyton H. Ramer and Harry O. Evans have taken over Hotel Berkeley, announced plans for renovation, install additional bathrooms and elevator.

W. Va., Weston—Directors of Chamber of Commerce considering survey submitted by Hockenbury System, Inc., Harrisburg, Pa., recommending erection of 75-room hotel with provision for addition of 25 or 50 rooms.*

Miscellaneous

Fla., Miami Beach—C. W. Chase, Jr., Sales Mgr. of Carl G. Fisher properties, announced plans for erection of private clubhouse, La Gorce Island.

Fla., Sebring—See Land Development.

Mo., Poplar Bluff—Clubhouse—Fay D. Bacon announced organization of country club and erection of clubhouse.

N. C., Asheville—Clubhouse—Asheville Country Club, Arthur F. Wenige, Sec., P. O. Box 614, receives bids this week for \$200,000, 2-story clubhouse.*

N. C., Raleigh—Museum—North Carolina Art Society, Prof. John J. Blair, Pres., contemplates erecting museum of fine arts.

Okl., Oklahoma City—Clubhouse—Sooner State Athletic Club, care J. R. Clark, raising finances for erecting \$500,000 club building; 6 to 10 stories, 100x140 ft., fireproof, hollow tile, interior tile, metal doors, concrete floors, ventilators, steel sash and trim, wire glass; Edw. L. Cahn, Archt., preparing preliminary plans.

Okl., Tulsa—Home—Frances Willard Home Board of Directors contemplate erecting building.

Tex., Dallas—Clubhouse—Tee Pee Club, O. F. Ellington, Pres., will erect clubhouse at White Rock Lake.

Tex., Laredo—Guy M. Trout, Archt., preparing plans for \$16,000, 1-story, 30x50-ft., brick and concrete clubhouse; C. S. McKinney, Sec.; bids soon.

Tex., Waco—Orphanage—W. F. Bennett, Mgr. of Methodist Orphanage, receives bids until April 14 for 2-story brick home; heat and plumbing proposals separate; also for 1-story and basement, brick and reinforced concrete garage; plans and specifications may be obtained from Milton W. Scott, Archt., 412½ Franklin Ave.*

Va., Salem—Standard Oil Co. contemplates erecting rest room for tourists, Union St. and W. Main St.

W. Va., Welch—McDowell County Country Club, care Dr. R. V. Shanklin, Gary, has plans in progress by Alex Mahood, Bluefield, for clubhouse.

Railway Stations, Sheds, Etc.

Fla., Orlando—Atlantic Coast Line Rwy. Co., J. E. Willoughby, Ch. Engr., Wilmington, N. C., reported to be considering erection of new depot.

Va., Norfolk—Norfolk & Western Railway Co., J. E. Crawford, Ch. Engr., will erect shed about 900x70 ft. over open pier at Engineers' Depot.

Schools

Ala., Andalusia—Mt. Chapel School Community plans to erect brick consolidated high school building; address Covington County Board of Education.

Ala., Huntsville—Board of Education sold \$150,000 bonds for erecting High School building.*

Ala., Mobile—City Commissioners contemplate \$200,000 bond election for completion of several units of High School building.*

Ark., Little Rock—School Board soon call

for bids for addition of 6 classrooms and ground floor auditorium at Woodruff School; Mann & Stern, A. O. U. W. Bldg.; Wittenberg & Deloney, Southern Trust Bldg., and John P. Almand, Boyle Trust Bldg., Archts. for \$1,000,000 building program.*

Ark., Union—Union Special School District No. 19, Board of Trustees, care S. D. Bumpass, plans to erect school building.

D. C., Washington—Board of Education, Ernest Greenwood, Chmn. of Committee on buildings, grounds and equipment, considering 16-room extension to Park View School.

Fla., Arch Creek—Dade County Board of Public Instruction, Charles M. Fisher, Sec., Miami, will call election April 28 in Arch Creek School District No. 4 on \$75,000 bonds for erecting unit to present school building and purchase of site and erection of building at Fulford.

Fla., Brookville—Hernando County Board of Public Instruction opens bids April 29 for \$75,000, 2-story, 152x85-ft., tile and stucco high school building; tile and composition roof, wood floors, concrete foundation, hollow tile, metal ceilings, ventilators, rolling partitions, low-pressure steam plant; Frank F. Jonsberg, Archt., 715 13th Ave., N., St. Petersburg.*

Fla., Miami—Dade County Board of Public Instruction, Charles M. Fisher, Sec., will call election April 28, in Special Tax School District No. 2, on \$3,800,000 bonds, for following: New unit to Allapattah Junior High and pay balance of \$10,000 due on site, \$275,000; addition to Buena Vista School, \$120,000; new unit to Santa Clara School and pay balance of \$9000 due on site, \$20,500; unit to Johnson St. School, \$103,000; addition to Citrus Grove School and pay balance of \$7500 due on site, \$170,500; addition to Coral Gables School and \$10,000 due on site, \$213,000; unit to LeJeune School, pay \$8000 due on site, \$68,000; unit to Washington Colored School; unit to Vocational Junior High, \$162,000; unit to Shenandoah Junior High and \$8000 on site, \$273,000; unit to Miami Beach Junior High and \$86,000 on site, \$293,000; unit to Miramar School, \$60,000 on site, \$120,000; addition to South Side School, \$50,000; site for Senior High, \$250,000; addition to Highland Park, \$50,000; addition to Riverside School, \$55,000; addition to Ada Merritt Junior High, \$10,000; addition to Robert E. Lee Junior High, \$100,000; unit for vocational shop for Robert E. Lee Junior High, \$11,875; purchase of additional sites.*

Fla., Miami—Dade County Board of Public Instruction will call election April 28 on \$500,000 bonds; include new school at Shadowland, junior high schools at Homestead and Lemon City, additions to Hialeah, Coconut Grove, Silver Bluff, Little River and other districts.

Fla., Tampa—Hillsborough County Board receives bids until April 14 for erecting school of Public Instruction, W. D. F. Snipes, Sec., building for Special Tax School District No. 4, Palma Ceia Park; plans and specifications may be obtained from B. C. Bonfoey, Archt.

Fla., Tampa—Hillsborough County Board of Public Instruction, W. D. F. Snipes, Sec., receives bids this week for school building for Special Tax School District No. 36, Ballast Point; C. Frank Galliher, Archt., 833 S. Dakota Ave.

Fla., Tampa—Hillsborough County Board of Public Instruction plans to erect 8-room, brick school building in Belmont Heights.

Ga., Atlanta—Fulton County Board of Education authorized construction of schools at Chattahoochee and R. L. Hope School, Piedmont Ave.; Archt. authorized to draw plans for \$35,000 Hope school.

Ga., Talbotton—Board of Trustees of Talbotton Consolidated School called election for April 11, on \$30,000 bonds for new school building.

La., Monroe—Ouachita Parish School Board, T. O. Brown, Supt., considering erecting 2 additional units to High School building.

Md., Annapolis Junction—District of Columbia, Chief Clerk Engineering Dept., 427 District Bldg., soon let contract for 3 brick, fireproof dormitory buildings at Home for Feeble-Minded; \$180,000, 1 story, 18x33 ft.; A. L. Harris, Munc. Archt., District Bldg.; both Washington, D. C.*

Md., Frederick—St. John's Catholic Parish has plans for \$70,000 school building; 3 stories, 8 classrooms and auditorium to seat 500.

Md., Westminster—Western Maryland College general campaign committee, Robert J. Gill, Chmn., Keyser Bldg., Baltimore, plans to raise \$375,000; will receive conditional gift of \$125,000 from Rockefeller Foundation for further endowment and \$125,000 from State

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for new building. Address Dr. A. N. Ward, Pres.

Miss. Hattiesburg—Board of Trustees Rock Hill Consolidated School, J. C. Gay, Supt., received bids this week for erecting school building; D. C. Springer, Archt.

Mo., Kansas City—School Board selected Ben C. Elliott, Archt., Mexico, to prepare plans for \$30,000, 2-story and basement, brick, 6-classroom school building.

Mo., Kansas City—Charles Alken, 3801 Walnut St., Guy S. Goodwin and Hugh H. Francis will remodel residence on property, N. W. cor. 75th St. and State Line, into school; will revamp barn for gymnasium; build swimming pool and tennis courts.

Mo., Unionville—Board of Education, D. W. Comstock, Sec., opened bids for erecting 2-story, brick and reinforced concrete, 78x93-ft. grade school building; John Scott & Son, Memphis, Mo., low bidders at \$22,740; electric wiring contract conditionally awarded to Logan & Farance at \$360; Wm. T. Scott & Son, Archts., Memphis.*

N. C., Asheville—School Board soon take bids for 12-room addition to Claxton School to cost from \$50,000 to \$60,000; will erect \$50,000, 12-room unit to Stephens-Lee colored school, Mountain St.

N. C., Bessemer City—Gaston County Board of Commissioners, Gastonia, called election for April 13, in Bessemer City Graded School District, on \$50,000 school bonds; address L. E. Rankin, Clerk of Board.

N. C., Chapel Hill—University of North Carolina, Executive Committee of Board of Trustees, approved plans for expenditure of \$150,000 for repairing and fireproofing Old South Building; Building Committee composed of John S. Hill, George Stephens and others prepared apportionment of \$800,000 building fund, to be expended as follows: remodeling Old South Building, \$150,000; overhauling heating plant and laundry, \$125,000; paving driveways, \$35,000; grading, \$25,000; furniture and fixtures, \$75,000; remodeling Chemistry Building for School of Pharmacy, \$25,000; repairing Alumni Building, \$20,000; repairing Pharmacy Building, \$20,000; repairing Old West Building, \$15,000; new wing to Davie Hall, \$50,000; remodeling Phillips Hall, \$50,000; new laboratory and teaching building, \$150,000.

N. C., Gastonia—City voted \$200,000 bonds for new Grammar School, addition to present building, improvements to playgrounds and athletic field at High School, including erection of stadium; address A. G. Myers, Chmn. School Board.*

N. C., Goldsboro—City voted \$325,000 bonds for purchase of sites, erection of High School building and auditorium at Virginia St. school.*

N. C., Louisville—Louisburg College, A. W. Mohr, Pres., opened \$500,000 expansion fund campaign to provide new buildings and equipment and endowment; work on Franklin County building to start early in summer; will contain library, laboratories, classrooms and 50 dormitory rooms; \$150,000 now available; proposed expansion includes \$100,000 chapel and fine arts building, \$25,000 gymnasium, \$25,000 central heating plant, \$200,000 for endowment.*

N. C., Turkey—Sampson County Board of Education, Clinton, opens bids this week for erecting and steam heating 13-room, brick school building.

N. C., Wentworth—Rockingham County Board of Education contemplates \$1,250,000 bond election, to include \$525,000 for Reidsville, \$450,000 for Leaksville and \$125,000 for Madison.

Okla., Putnam—Dewey County Board of Education, Ida M. Hale, Supt., Taloga, contemplates erecting consolidated school building.

Okla., Sayre—Town voted \$48,000 bonds; soon start work on remodeling Bryan High School and add 16 rooms. Address School Board.

S. C., Columbia—Board of School Commissioners, A. C. Moore, Chmn., receives bids this week for 6-room addition to McMaster School; Wilson, Berryman & Kennedy, Archts., 1506 Palmetto Bldg.*

S. C., Gaffney—Homes and Asbury School Districts voted to consolidate and issue \$10,000 bonds for erecting school building; B. L. Hoke, Supt. of Cherokee County Board of Education, announced appointment of following Trustees: Adam Goudelock, J. T. Baines and Mrs. John D. Jeffries, Jr.

S. C., Lynchburg—Board of School Trustees, S. W. Frierson, Chmn., receives bids until April 15 for brick, 6-classroom and auditorium school building; J. H. Sams, Archt., Columbia.*

S. C., Williston—School Board, H. M.

Thomson, Chmn., receives bids until April 17 for erecting and heating Consolidated High School building; plans on file at office Builders' Exchanges, Columbia, Augusta, Ga.; Willis Irvin, Archt., Augusta, and Mr. Thomson.*

Tenn., Chattanooga—School Board, J. S. Ziegler, Supt., plans to erect addition to Chattanooga Ave. colored grammar school; W. H. Sears, Archt., James Bldg.

Tenn., Nashville—Agricultural and Industrial Normal School, Prof. W. J. Hale, Pres., will get \$160,000 appropriation from Legislature; General Education Board, New York, appropriated \$100,000 and Prof. Hale pledged \$60,000, making \$320,000 building fund to provide agricultural building, library, practice school and dormitory.

Tenn., Nashville—Bearben Realty Co. has permit for erection of \$30,000, brick, 17-room home for Vanderbilt chapter of Delta Tau Delta fraternity, 25th and Vanderbilt Place.

Tenn., Ripley—Lauderdale County Election Commissioners called election for April 28 on \$100,000 bonds for new building in Ripley Special School District.

Tex., Austin—School Board discussed plans for construction work on 4 school buildings.

Tex., Bertram—Independent School District voted \$60,000 bonds for high school building and building for Mexicans; brick and concrete; select Archt. soon. Address Board of Education.

Tex., Brownsville—Sisters of Incarnate Word contemplate erecting Villa Maria School to cost eventually \$250,000. Address Rev. Father J. B. Frigon.

Tex., Brownsville—Brownsville Independent School Board, F. E. Starck, Sec., selected M. L. Waller, San Antonio, to prepare plans for new school and additions and ordered election on \$75,000 bonds for May 2.*

Tex., Canuall—El Paso County Board of Education, Miss Lillian Huggert, Supt., El Paso, announced plans for \$12,000, 4-room, Spanish type addition to school.

Tex., Clint—Clint District votes this week on \$35,000 bonds for improvements to include: 6-room addition and auditorium to school, purchase of additional land in Mexican section and improvements to school; address Board of Trustees.

Tex., Coleman—Board of Education selected W. G. Clarkson, Archt., Fort Worth, to prepare plans for \$100,000, brick, stone and reinforced concrete school building.*

Tex., Crystal—Board of Trustees Crystal City School District contemplate \$20,000 bond election for school addition.

Tex., Roby—William Nichol and George F. Campbell, Archts., Radford Bldg., Abilene, have final plans in progress for \$60,000, 1-story, brick and reinforced concrete grammar school building; address Board of Education.*

Va., Fredericksburg—Betty Lewis Building Corp. will provide for \$25,000 addition to Betty Lewis Dormitory at State Teachers' College; accommodate 50 students. Address A. B. Chandler, Jr., Pres. of College.

Va., Harrisonburg—School Board receives bids until April 30 at office Charles M. Robinson, Archt., Times-Dispatch Bldg., Richmond, for \$50,000, 8-room addition to Waterman Grammar School.*

Va., Orange—School Board, E. V. Huffman, Chmn., will erect \$30,000, 1-story, 102x116 ft., brick school building; maple floors, cement foundation, composition roof, wire glass; erecting \$15,000 stucco and \$6000 frame buildings.*

Va., Richmond—Virginia Union University and Hartshorn Memorial College, Dr. W. H. Clark, Pres., plan to raise \$300,000 and General Education Board of Baptist Church will furnish \$300,000 for new buildings and endowment.

Va., Richmond—Varina District voted Apr. 9 on \$160,000 school improvement bonds; address Henrico County Board of Education.

W. Va., Keyser—Board of Education will call election April 21 on \$50,000 bonds for completion of High School by erection of auditorium and gymnasium.

W. Va., Martinsburg—Martinsburg Independent School District will vote June 2 on bonds for High School building; address L. W. Burns, Supt. Board of Education.

Stores

Ala., Tuscaloosa—M. D. and D. L. Rosenau will replace frame buildings, 612-4 23rd Ave., with 2 brick store buildings.

Ark., Little Rock—Will Hoffman, 2312 Arch St., will erect \$20,000, 2-story store building, Sixth and Louisiana Sts.

Fla., Miami—Rand Properties, Inc. will erect \$38,000, 2-story, cement block store and

office building, N. E. Second Ave. and 11th Street.

Fla., Orlando—Orange County Investment Co. will erect store and office building, N. Church St.

Fla., Orlando—Orlando Better Homes Co. will erect \$12,000, Spanish-type, 3-store building, W. Church St., between Terry and Division Sts.; 2 stores 17x60 ft., other 35x100 ft.; Percy Turner, Archt.

Fla., Pompano—C. E. Hollingsworth and C. L. Sadler, Fort Lauderdale, purchased Dowling home, plan to erect hardware, drug and clothing store.

Fla., Sarasota—H. T. Brice, Quiltman, Ga., plans to erect building, Broadway and 11th St.

Fla., Sarasota—J. H. Feibel, Cincinnati, Ohio, will erect 4 stores, Victory Ave.

Fla., Sarasota—Leon N. Gillett, Archt., New York, purchased corner business site.

Fla., Tampa—H. C. Draper and associates plan to erect building on property with 110-ft. frontage on Twiggs St.

Fla., West Palm Beach—W. B. Fagan has plans by Harvey & Clarke, Guaranty Bldg.; will soon start work on Fagan Arcade; 50-ft. frontage on Clematis Ave., extending 150 ft. to alley and continue 150 ft. to Banyan St.; contain 34 shops, Clematis Ave. portion 2 stories, with offices on top floor, balance 1 story.

Ky., Ashland—Mrs. Alice Mayo Pether, John C. C. Mayo, W. H. Dawkins and Alexander Cameron will incorporate, plan to erect \$500,000, 4-story and basement, fireproof, steel and concrete building, to be known as Camayo Arcade, connecting Winchester and Carter Aves.; 62 storerooms on first and mezzanine floors, electric elevators; Albert Klien, Archt.

La., Baton Rouge—Chero Cola Bottling Co. will remodel old building for stores and apartments.

Md., Baltimore—K. Berlin, 2008 N. Bentall St., contemplates erecting store building in rear 601 Cathedral St.

Md., Baltimore—Mervin & Levensohn completed plans for three 2-story, brick, \$25,000 store and apartment buildings, N. E. Cor. Park Heights and Ingleside Aves.

Mo., Columbia—R. B. Price soon let contract for \$15,000, 70x110-ft., 1-story building, Ninth St.; 2 shops and restaurant; J. B. Tracy, Archt.*

N. C., High Point—Beeson Hardware Co., care R. R. Hagan, will erect 4-story and basement, brick, 40x80-ft. addition to present building; R. G. Lassiter & Co. has contract for excavation.

Okla., Okemah—Bur Reynolds has plans in progress by M. T. Hardin, Muskogee, for 50x120 ft., 1-story store building.

Tenn., Chattanooga—John Sanders and associates announced plans to develop south-side block of McCallie Ave., between Lyerly and Watkins Sts., for business purposes; will erect 2 or 3-story, brick buildings.

Tenn., Chattanooga—Levine Realty Co., J. L. Levine, Pres., purchased building at 135 Main St.; will remodel.

Tenn., Newport—L. S. Allen has plans by C. A. Tarwater, Knoxville; soon let contract for stores and offices; brick walls, oak floors, built-up asphalt roof, concrete foundation, 22x56 and 47x65 ft., one 2-story and basement, other 2 stories; major items to be purchased include: brick, concrete, store fronts, roofing, metal ceilings and plastering, heating, plumbing and wiring.*

Tenn., Paris—Kridler & Sons, Archts., prepared plans for Diggs Building, Washington and Brewer Sts.; 61x90 ft., 2 stories, contain store, restaurant, service station.

Tex., Abilene—Lyman T. Davis, Corsicana, will erect three 2 and 3-story, brick and concrete store buildings; \$150,000.

Tex., San Antonio—M. Kallison, 124 Flores St., receive bids within 3 weeks for erecting units 3, 4 and 5 of \$75,000, 2-story, brick, hollow tile and concrete store buildings, Flores St., between Dolorosa and Nueva Sts.; Harvey P. Smith, Archt., Natl. Bank of Commerce Bldg.*

Tex., Fort Worth—Harry Keaton will erect \$15,000 wholesale house, 404-6 Williams St.

Tex., Gonzales—J. F. Remschel will erect 5 business houses; property 95x145 ft.

Tex., Plainview—W. E. Boyd soon start work on two 23x25 ft. brick buildings, Ash St.; plate glass windows.

Theaters

Ala., Birmingham—Marcus Loew Theatrical Interests, Marcus Loew, Pres., 1540 Broadway, New York, plans extensive alterations to Temple Theater.

Fla., New Port Richee—Palms Theater, J.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

S. Jackson, acquired site on Main St.; will erect theater building.

Fla., Ocala—J. W. Phillips purchased property on W. Broadway, plans to erect store, theater and office building, also 5-room apartments.

Tex., Beaumont—J. H. Saenger, 3553 Gentilly Blvd., New Orleans, Pres. of Saenger Amusement Co., considered new sites for erection of \$500,000, brick, terra cotta, reinforced concrete and steel, fireproof theater building; Emile Weil, Archt., Whitney Annex, New Orleans.*

Mo., Kansas City—E. J. Willett has plans in progress by Robert F. Gornall for 12-story, fireproof, brick, with cut stone and terra cotta trim, 160x158-ft. theater and office building, Broadway and Valentine Rd.; theater to seat 2500.*

Tex., Childress—E. F. Rittenberry, Archt., 303 Blackburne Bldg., Amarillo, selected to prepare plans for \$45,000, brick and stone, semi-fireproof, 60x115 ft., face brick, stone trim theater building for Phipps & Layton.

Tex., San Antonio—Jesse Oppenheimer, 309 Madison St.; Albert Kronkosby and others will receive competitive bids instead of awarding contract to Kelwood Bros., Archts., as reported, for erecting combination \$1,500,000, 6-story, brick, concrete and stone theater and office building, Commerce and St. Mary's Sts.; bids about May 1.*

BUILDING CONTRACTS AWARDED

Bank and Office

Ala., Sylacauga—Jordan Insurance Agency has started work on building, Broadway near First St.

Ark., Fort Smith—Z. S. Rambo, 314 N. 21 St., has contract to combine Merchants National Bank Bldg. and Nakdimen Bldg.; cost \$40,000 to \$50,000; work started.

Ark., Little Rock—Geo. W. Donaghey, New Donaghey Bldg., let contract for concrete structural part of 14-story office building, Seventh and Main Sts., to Kaucher, Hodges & Co., Shrine Bldg., Memphis, Tenn.; cost \$1,000,000, 14 stories, stores on first floor, 559 offices above; construction by Mr. Donaghey; Hunter McDonnell, Archt., 247 Park Ave., New York. (See Machinery Wanted—Elevators; Cut Stone; Terra Cotta.)*

Fla., Miami—Trust Company of Florida, 437 N. E. First Ave., will erect 2-story building, 435 N. E. First Ave.; foundation to carry 8 stories; Moorish type, 50x100 ft., banking quarters to have marble walls, marble, mahogany and brass fixtures and furnishings; Robertson & Patterson, Archts., Calumet Bldg.; interior designed by Mr. Dichter, Boston, Mass.; Chas. Ewing, Contr., 219 Bedford Bldg.

Okl., Frederick—Security State Bank let contract for 40x50-ft. addition, N. Ninth St.

Tenn., Memphis—Dave Derman, 298 Madison Ave., let contract to Kaucher-Hodges Co., Shrine Bldg., for \$500,000 Derman Bldg., N. 3rd St. and Court Ave.; fireproof, brick and architectural terra cotta, 10 stories, 60x149 ft., ornamental iron entrance, 3 high-speed elevators, heating and ventilating system; about 8 stores on first floor, offices above; Chas. O. Pfeil and Geo. Awsumb, Archts., Fidelity Bldg.*

Tenn., Nashville—American Trust Co. is setting basement and first floor columns for \$350,000 structural steel office building, 235 Third Ave.; 15 stories, 45x104 ft., mastic and concrete floors, concrete and rubble stone foundation, built-up roof, hollow and interior tile, metal doors, mail chutes, vault lights, ventilators, wire glass; H. C. Hibbs, Archt., Fourth and First National Bank Bldg.; Hegeman-Harris Co., Inc., Contr., 406 Nichol Bldg., desires all sub-bids in 30 days; structural steel to Virginia Bridge & Iron Co., Roanoke, Va.; steel erection, Powers & Addy Co., Indianapolis, Ind.*

Churches

Ala., Montgomery—St. Peter's Church, Rev. Patrick Turner, Pastor, let contract to Anderson Lumber Co. for \$20,000 building, Capitol Heights, as memorial to late Father Dennis Savage; glazed brick with Flemish bond, white stone trim, seat 250.

Ala., Plateau—Turnerville Methodist Church, C. L. Dodge, Chmn., is erecting frame building.

Ark., Benton—First Baptist Church, Chas. Searcy, Chmn. Bldg. Comm., let contract at \$35,000 to C. M. Leird for 62x105-ft. building; auditorium to seat 1100; Wittenberg, Deloney & Watts, Archts., all Little Rock.

Ark., Little Rock—Central Baptist Church let contract to L. A. Riley, 16th and Maple

Va.-Tenn., Bristol—D. W. Wagner, Contr., leased Merryman Building, State St., and property in rear, plans erection of theater on lot, with arcade through building to State St.

Warehouses

Ala., Huntsville—Southern Railway, Henry W. Miller, Vice-Pres., Washington, D. C., reported to plan improvements to offices and warehouses.

Fla., Tampa—W. S. Rugg, Pittsburgh, Pa., Gen. Sales Mgr. of Westinghouse Electric Co., announced plans for office and warehouse building.

N. C., Shelby—Mrs. Kate L. North purchased property 65x150 ft. on DeKalb St.; will erect warehouse this summer.

Tenn., Chattanooga—Tennessee Red Cedar & Novelty Co., T. C. Betterton, Pres., will erect \$75,000, 100x130-ft., brick and concrete, fireproof, 2½-story warehouse.

Tenn., Clarksville—Warehouse of Tobacco Export Co., loss \$150,000 to \$200,000.

Tex., Fort Worth—Fort Worth Power & Light Co. will erect \$30,000, fireproof warehouse and garage, Seventh and Jones Sts.

Tex., Panhandle—International Supply Co. plans to erect warehouse on W. Second St.

Va., Danville—W. M. Miles, W. M. Bowland and C. M. Watts plan to erect independent auction tobacco warehouse on Wilson St.

St., for brick building; Sunday school rooms in basement.

Fla., Fort Lauderdale—Park Street Temple M. E. Church let contract to M. P. Moller Co., Hagerstown, Md., for pipe organ in church nearing completion.

Fla., Fort Pierce—First M. E. Church, South, Rev. G. W. Stubbs, Pastor, let contract for \$50,000 building to C. E. Cahow; Spanish type, hollow tile and stucco, 1 and 2 stories, wood and concrete floors, concrete foundation, composition and tile roof, hollow tile, ventilators, rolling partitions; main auditorium and balcony to seat 425; probably pipe organ; Wm. W. Hatcher and Lawrence S. Funke, Archts.*

Fla., Miami Beach—First Methodist Church let contract for \$50,000 building, Sixth St. and Jefferson Ave., to Geo. W. Dickens, 1110 Euclid Ave.; piling set by J. I. Conklin Co., 50 S. W. North River Drive, which was lately incorrectly noted Contr.; Wm. F. Brown, Archt., Collins Ave. near Fifth St.*

Ky., Fulton—Baptist Church let contract to Valentine Bros. for building.

Md., Hagerstown—Hebrew Congregation, care M. R. Lyon, 16 W. Franklin St., reported let contract to Aaron Reecher & Magnolia Ave., for \$30,000 building; 2 stories, 30x87 ft., brick.*

Miss., Aberdeen—Christian Church let contract for \$75,000 building to Chastang Construction Co., Jackson; brick veneer, main auditorium and basement, 50x75 ft., yellow pine and concrete floors, built-up Barrett roof, interior tile, concrete foundation, ventilators, rolling partitions, wire glass; Spain & Strasser, Archts., Millsaps Bldg., Jackson.*

Miss., Greenwood—First Presbyterian Church, Rev. J. P. Marion, Pastor, let contract at \$40,348 to S. G. Beaman for main auditorium, exclusive of remodeling present structure, for Sunday-school; Frank McGeoy, Archt.*

Mo., Kansas City—First Baptist Church, Rev. D. J. Evans, Pastor, 3322 Wabash Ave., let contract at \$297,368 to John P. Nell & Sons for addition to building, Linwood Blvd. and Park Ave.; heating, plumbing and ventilating, MacMahon Co., at \$31,989; electric wiring, F. E. Newberry Electric Co., 921 A. and R. Bldg., \$6170; brick and native stone, 2 stories and basement; additional wing, Olive St. and Linwood Blvd., to be erected later; 2 auditoriums to seat 2000 each, classrooms; ultimate cost \$600,000; J. H. Felt & Co., Archts., Grand Avenue Temple Bldg.*

Mo., O'Fallon—St. Mary's Institute chapel and infirmary; Ludwig & Dreisoerner, Architects, 3543 Humphrey St., St. Louis; G. C. Holthaus, Contr., Oconee, Ill. (See Contracts Awarded—Hospitals, Sanitariums, etc.)

Mo., St. Louis—North Side Christ Church, 4300 Gano St., will erect \$12,000 addition; brick, 54x60 ft., tar and gravel roof; H. Groer, Archt.; L. Hauer, Contr., 5214 Gilman St.

Mo., St. Louis—St. Luke's P. E. Church, Arlington and Lilliam Aves., let contract to Chas. Wilcox Contracting Co., 5304 Queens Ave., for frame and stucco building; 1 story,

54x26 ft., pine floors, concrete foundation; Geo. E. Smith, Archt., 5401 Murdock Ave.*

N. C., Charlotte—Moncrief Furnace Co., 62 Hemphill Ave., Atlanta, Ga., has contract for hot air heating and ventilating system in \$150,000 building for Pritchard Memorial Richter, Boston, Mass.; Chas. Ewing, Contr., Bldg. Comm.; Dougherty & Gardner, Archts., Stahlman Bldg., Nashville, Tenn.; J. A. Jones Construction Co., Contr., Realty Bldg.*

N. C., Winston-Salem—Central Terrace M. E. Church will erect \$35,000 brick building, Stockton St. near Devonshire St., Southside; 2 stories and basement, 65x33 ft. and 40x60 ft., roofs and rift pine floors, concrete foundation, asbestos shingle roof; furnishings, equipment, etc., \$5000, bids opened about July 1; items to be purchased include pews and chairs, address Rev. J. C. Carnett, 709 Sprague St.; Northrup & O'Brien, Archts., Starbuck Bldg.; W. L. Snyder, Contr., 607 Mulberry St.*

Okl., Tulsa—Assembly of God, Rev. Jonathan Perkins, Pastor, let contract to W. T. Botkin, 1437 S. Quaker St., for \$25,000 building, 5th and Peoria Sts.; brick, 1-story, 90x100 ft., oak floors, cement foundation, asphalt roof, hollow tile, ventilators, ornamental terra cotta, rolling partitions, steel sash and trim, wire glass; H. M. Ruggles, Archt., Robinson Bldg.; plumbing, Jas. Thompson, 553 S. Peoria St.*

S. C., Due West—Associate Reformed Presbyterian Church, E. L. Reid, Chmn., Bldg. Comm., let contract to W. A. Carry & Son, Columbia, for \$75,000 red texture brick building; stone trim, 140x90 ft., rift pine floors, metal or slate roof, steam heat, auditorium to seat 1000; Casey & Fant, Archts., Anderson.*

Tex., Dallas—Westminster Presbyterian Church, P. L. Russell, Chmn. Bldg. Comm., let contract for \$25,000 Westminster Hall, Mahon and Fairmount Sts., to R. Russell Stapler; 2 stories, 46x96 ft., brick, classrooms; accommodate 500 to 600; Herbert M. Greene Co., Archts., North Texas Bldg.*

Tex., San Antonio—Mexican Christian Society, 100 San Jacinto St., C. C. Dodson, Director, let contract for \$20,000 mission, Gaudaloupe and San Jacinto Sts., to Will Orth, Gibbs Bldg.; hollow tile and stucco, 2 stories and basement; L. Harrington & Co., Archts.-Engrs., Houston Bldg.*

City and County

Ala., Rockford—Geo. N. Boyett has contract for Delco lighting system in \$37,500 Coosa County courthouse to replace burned structure; plumbing, Mitchell Supply Co., Sylacauga; 2 stories, concrete floors and foundation, tin roof, metal ceilings, vaults, ventilators, steel sash and trim; Bem Price, Archt., Age-Herald Bldg., Birmingham; Walker Brothers & Co., Contrs., Fayette.*

Ala., Toulminville (Mail Mobile)—Mobile County, Thos. B. Allman, County Clk., let contract at \$10,591 to G. A. Chamblin & Son for fireproof building for negroes at poor asylum; brick, sand and framing lumber by county; plans by Platt Roberts, County Archt., 757 Government St., Mobile.*

Ga., Columbus—City, Walter A. Richards, Mayor, let contract at \$45,087 to Columbus Construction Co. for 2 sides of reinforced concrete stadium, South Commons; seat 10,000; Robert & Co., Archts.-Engrs., Bona Allen Bldg., Atlanta; furnishings, equipment, etc., about \$25,000.*

La., Baton Rouge—City let contract at \$10,000 to A. C. Stewart, 810 E. Boulevard, for tile and stucco fire station, Feliciana St.; plumbing and heating, Brashear & Rambach; heating, Baton Rouge Plumbing Co., 118 St. Louis St., \$1845; 1 story, tile roof, concrete floors, steam heat; Wm. T. Nolan, Archt., Canal-Commercial Bldg., New Orleans.*

Md., Baltimore—Board of Awards, Mayor Howard W. Jackson, Pres., let contract at \$10,131 to J. George Bensel Co., 17 Guilford Ave., for Branch No. 1 Enoch Pratt Free Library, Fremont Ave. and Pitcher St.; Fredk. Fletcher, Archt., 407 N. Charles St.*

Md., Towson (Branch Baltimore)—Baltimore County Comms. let contract at \$113,000 to Thos. Hicks & Sons Co., Inc., 106 W. Madison Ave., for Courthouse addition; fireproof, 2 stories, 28x110 ft., concrete floors, concrete and slag roof; Josias Pennington, Archt., Professional Bldg., both Baltimore.

Dwellings

Ala., Birmingham—Hutto-Robins Realty Co., Hutto-Bradley Bldg., 3022 Twenty-seventh St., North, plans to erect 30 bungalows during 1925 in addition to 5 under construction.

D. C., Washington—A. T. Newbold, Investment Bldg., 15th and K Sts., N. W., will erect

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4 dwellings and garages, 2812-20 Thirty-fourth place; 2 stories, 30x30 ft., brick; total cost \$41,800; C. N. Norton, Archt., Oxford Bldg., 144 New York Ave., N. W.; Walter Case, Contractor, Investment Bldg.

Fla., Avon Park—Commr. T. de F. Harris, U. S. N., retired, has started work on \$12,000 residence, Lake Lotela.

Fla., Avon Park—W. A. Marshall will erect \$11,000 semi-bungalow, Idawa; coquina rock trim; work started.

Fla., Bradenton—C. M. Hill will erect \$10,000 residence, Magnolia Ave.; J. T. Argo, Contr.

Fla., Fort Lauderdale—Tom M. Bryan will erect \$50,000 Spanish type residence, New River at Brickell Blvd.; 2½ stories, 72x57 ft., 12 rooms, hollow tile and stucco, 5 baths, tile and concrete floors, concrete foundation, tile roof, steel sash and trim, 2-car garage with servants' quarters above, connected by arcade with residence; Francis L. Abreu, Archt.; C. H. Sherwood, Asso. Archt. Address Archt.*

Fla., Jacksonville—Suburban Homes Co. will erect 20 Spanish type dwellings, Lake Shore; construction started on 1, St. Johns Ave. and Lake Shore Blvd.

Fla., Kissimmee—Mrs. Cora P. Howell is erecting Spanish type bungalow, Brack St.; 7 rooms; Frank Bourle, Contr.; tile by Osceola Builders Supply Co.

Fla., Miami Beach—J. P. Cramer will erect 2 dwellings, Nautilus section; cost \$9500 each; W. P. Shappell, Archt.; Oscar Shappell, Contr.

Fla., Miami Beach—C. A. Harrington will erect \$20,000 residence, Flamingo Terrace; 9 rooms; Wm. C. Coffin, Archt., 1670 Bay Rd.; Owner builds.

Fla., Miami Beach—A. B. McGowan will erect \$12,500 residence, Flamingo Terrace; 8 rooms; owner builds.

Fla., West Palm Beach—H. E. Robinson, Sec., Chamber of Commerce, will erect 10 dwellings, Upland Rd., Flamingo Park; hollow tile and stucco, 6 rooms, tile baths built-in features; total cost about \$50,000; James Ebert Co., Contr.

Ga., Augusta—J. Clark Jack, 522 Greene St., will erect \$30,000 residence, 2634 Walton Way; brick, 12 rooms, 2 baths, basement; Willis Irvin, Archt., Raleigh, N. C.; Charlotte, N. C., and Columbia, S. C.; C. B. Holley, Contr., 1810 Walton Way; wiring, Whitney-McNeill Electric Co., 841 Broad St.; plumbing and heating, W. H. Weatherford, Aiken, S. C.

Ga., Augusta—Marion Symms, 1302 15th St., will erect \$11,200 residence, 2338 McDowell St.; 2 stories, 10 rooms, frame; Howell Construction Co., Contr., Marion Bldg.

La., Ruston—Harry Howard will erect residence, Arizona Ave. and S. Bonner St.; work started.

La., New Orleans—L. M. Ash, 3553 Gentilly Blvd., let contract to Chas. Gilbert for \$50,000 residence, out-building and garage, 21 Audubon Place; frame and shingle, 2 stories and basement; Emile Weil, Archt., Whitney Bldg.*

La., New Orleans—Rellance Homestead Assn., 608 Common St., and Geo. Wiegand will erect \$15,400 residence, Exposition Blvd. and Prytania St.; L. J. Woodworth, Contr., 337 Baronne St.

La., New Orleans—John Casadabon will erect 2 double cottages and garages, O'Reilly Rousselin and Broad Sts.; total cost \$12,000; Wm. Evers, Contr.

La., New Orleans—Jackson Homestead Assn., 722 Common St., will erect \$10,200 duplex, Robert and Cuculla Sts.; Anthony M. Pumilia, Contr., 3316 Cleveland St.

La., New Orleans—A. G. Darden, 3103 S. Carrollton Ave., will erect 6 double cottages, Spruce and Lowerline Sts., and 2 duplexes, Harding Drive; total cost \$30,000; R. J. Walker, Contr., 2232 Cadiz St.

La., New Orleans—J. A. Haase, Jr., 916 Union St., will erect \$30,000 hollow tile and stucco dwelling, Fontainebleau Drive; 2 stories; sub-contracts.

La., New Orleans—Union Homestead Assn., 351 Carondelet St., will erect single raised bungalow, Broad Blvd. and Burdette St., and one, Nelson and Fontainebleau Sts.; total cost \$20,950; Edwin L. Markel, Contr., 4444 S. Galvez St.

Md., Baltimore—City Real Estate Co., 11 E. Fayette St., will erect 15 frame cottages, Hamilton, Milburn and Auburn Aves.; 1½ and 2 stories, 24x28 ft. and 26x31 ft., slate roofs; total cost about \$45,000; Geo. Wessel, Archt., 3001 Lytleton Rd.; owner builds.*

Md., Baltimore—Johns Development Co. will erect 4 frame dwellings, N. E. cor. Greenbrier Ave. and St. John Ave.; 1½ sto-

ries, 16x24 ft., shingle roofs, furnace heat; total cost \$10,000; J. E. Stansbury, Archt.-Contr., 2852 Pennsylvania Ave.*

Md., Baltimore—Cityco Realty Co., 7 St. Paul St., will erect 8 brick dwellings, 2248-62 Woodberry Ave.; 2 stories, 14x40 ft. and 18x30 ft., slag roofs, furnace heat; total cost \$20,000; F. E. Beall, Archt., 306 St. Paul St.; Owner builds.*

Md., Baltimore—Howard E. Gray, First St. and Patapsco Ave., Brooklyn, will erect 12 brick dwellings, S. side Carroll St. E. of Fourth St.; 2 stories, 13x40 ft., slag roofs, furnace heat; total cost \$15,000; J. H. Schneider, Archt., 1911 E. Oliver St.

Md., Baltimore—Lauretta Building Co., 2626-48 Lauretta Ave., will erect 12 brick dwellings, 2626-48 Lauretta Ave.; 2 stories, 18x30 ft. and 14x40 ft., Carey roofs, steam heat; total cost \$30,000; Jos. R. Degges, Archt.; owner builds.*

Md., Baltimore—John M. Mowbray, Sudbrook Lane, will erect \$14,000 residence, 3817 Juniper Rd.; 2½ stories, 51x27 ft., slate roof, hot water heat; E. A. Wolf, Archt.; John L. Tregallas, Contr., 10 E. Fayette St.

Md., Baltimore—Maurice L. Shipley, 1825 N. Calvert St., will erect \$10,000 residence and garage, 3305 Edgerton Place; 2 stories, 28x42 ft. and 20x20 ft., slate roofs, hot water heat; E. L. Neudecker, Archt.; owner builds.

Md., Baltimore—Powell E. Parks will erect 9 brick dwellings, N. side Lehman St. E. of E. Lynn Ave.; 2 stories, 13x45 ft., slag roofs, hot water heat; total cost \$18,000; S. Sedridge, Archt.; owner builds.

Md., Baltimore—Pistorio & Faupel Realty Co., Shirley and Green Spring Aves., has started work on 10 dwellings, N. side Keyworth Ave. near Pall Mall Rd.; brick, 2 stories, 21x35 ft., hardwood floors, stone foundations, slag roofs, ventilators, Arco boilers and radiators, tile baths, showers, built-in tubs, etc.; will purchase all material; address Owner, care L. F. Mathews, Archt., 420 N. Hilton St.; owner builds and desires sub-bids; brick and stone work let.*

Md., Baltimore—Beldon Realty Co. will erect 12 brick dwellings, N. E. side Cuthbert Ave., N. W. of Hayward Ave.; 2 stories, hot-air heat; total cost \$24,000; D. B. Aldridge, Archt.; owner builds.

Md., Baltimore—W. Ferris, 3603 Liberty Hgts. Ave., will erect frame residence and garage, W. side Cedarvale Rd., S. of Ashburton Ave.; 2½ stories, 28x32 ft. and 20x20 ft., frame, slate roofs, steam heat; cost about \$10,000; Younger & Riddel, Archts.-Contrs., 4417 Meriweth Ave.

Md., Baltimore—C. C. Hall, 1711 N. Calhoun St., let contract to Ralph MacMurray for \$17,000 residence and garage, N. side Granby Rd. E. of St. Albans Way; frame, 2½ stories, 42x31 ft. and 10x19 ft., slate roofs, hot-water heat; C. D. Loomis, Archt.*

Md., Baltimore—Harry C. Shyrook will erect \$10,000 brick residence and garage, S. E. cor. Cedarcroft Rd. and Walnut Lane; 2 stories, 40x26 ft. and 12x18 ft., slate roofs, hot-water heat; Jos. H. Shenacker, Archt.; J. Oscar German, Contr.

Md., Baltimore—Howard Sill, 12 E. Pleasant St., will erect \$25,000 brick residence, E. side St. Paul St., N. of Highfield Rd., Guilford; brick, 2½ stories, 48x28 ft., brick, slate roof, hot-water heat; plans by owner; L. L. Chambers, Contr., 36th St. and Roland Ave.*

Miss. Lumberton—L. F. Nelson, Asst. Gen. Mgr., Edward Hines Yellow Pine Co., has started work on residence.

Miss. Vicksburg—Mrs. C. E. Crook, Drummond and Mulvihill Sts., will rebuild residence; cost \$12,000; M. J. Donovan, Archt.; R. W. Boulton, Contr.

Mo., Clayton (Ind. Branch St. Louis)—Anthony Walter, 8612 Argyle St., will erect 5 brick dwellings, Midland Hills; 28x36 ft., 30x34 ft. and 25x47 ft.; total cost \$23,000; Russell A. Conzelman, Archt.; Owner builds.

Mo., Clayton (Ind. Branch St. Louis)—W. P. Wohl, 6215 Washington St., will erect \$25,000 residence, Forsythe St., Tesson subdivision; brick, 68x44 ft.; Corrubia & Henderson, Archts., Arcade Bldg.; John Craig & Son, Contrs.

Mo., Joplin—Mrs. T. A. Poyner is erecting \$12,000 residence, 2402 Pennsylvania Ave.

Mo., St. Louis—J. Fendler, 6007 S. Kingshighway, will erect 4 brick dwellings, 4922-62 Robert St.; 1 story, 25x34 ft., asphalt shingle roofs, furnace heat; total cost \$16,000; A. F. Stauder, Archt., 6028 S. Kingshighway; Owner builds.

Mo., St. Louis—Bethel Baptist Church, 5579 Labadie St., let contract for \$25,000 brick building to W. T. Smith & Sons, 4623 Macklind St.; 1 story, 56x60 ft., composition

shingle roof, steam heat; O. R. S. Traber, Archt., 5003 Sutherland St.*

Mo., St. Louis—R. Koberman, 4742 Gravois St., will erect 6 brick dwellings, 4460-74 Neosho St.; 2 stories, 25x28 ft., composition roofs, furnace heat; total cost \$21,000; S. O. Schumacher, Archt., 8635 Mora Lane; Owner builds.

Mo., St. Louis—D. Puestt, 4016 Dover St., will erect \$11,400 residence, 460 Kingshighway Park and 5104 Virginia St.; 2 stories, 37x42 ft., slate roof, hot water heat; also 25x75-ft. garage; E. Lawer, Archt.; E. H. Beckemeier, Contr., 3965 Dover St.

Mo., St. Louis—J. W. Gedney, 1013 Hornsby St., will erect 2 dwellings, 4721-27 Kosuth St.; brick, 1 story, 25x49 ft., asphalt shingle roofs, furnace heat; total cost \$10,000; plans and construction by owner.

Mo., St. Louis—H. Meyer, 3970 Connecticut St., will erect 3 brick dwellings, 6284-92 Magnolia St.; 2 stories, 26x31 ft., composition roofs, furnace heat; total cost \$12,000; Construction Service Co., Archt.-Contr., 3970 Connecticut St.

Mo., University City—Chas. L. Allen, 6 Cornell St., will erect \$10,000 brick residence, 6925 Princeton St.; 2½ stories, 29.5x36 ft., slate or tile roof, vapor heat; 1 story, 24x30 ft., composition roofs, hot air heat; J. Mack Vaughn, Archt.-Contr., 3098 Lucas St. and Hunt Rd.

Mo., University City (Station St. Louis)—C. A. Meredith, 5054 Vernon St., will erect 7 brick bungalows, 6522-24-26-28-34-36-38 Julian Ave.; cost \$2800 each; 1 story, 24x30 ft., composition roofs, hot air heat; J. Mack Vaughn, Archt.-Contr., 3098 Lucas St. and Hunt Rd.

Mo., University City (Station St. Louis)—H. M. Miller, 5738 DeGloverville St., will erect \$12,000 brick residence and garage, 7321 Kingsbury Blvd.; 2 stories, 45x25 ft., slate roof, steam heat; J. H. Williamson, Archt.-Contr., 7039 Waterman St.

Mo., Webster Groves (Ind. Branch St. Louis)—Henry Watkins, 3923A Shaw Ave., St. Louis, will erect \$10,000 residence, 378 Pasadena Ave.; frame stucco, 2 stories, 10 rooms, 36x41 ft.; O. P. Steele, Contr., 6930 Dartmouth Ave.

N. C., Charlotte—W. C. Atrial will erect \$10,000 residence, Hawthorne Lane; brick veneer, 8 rooms; Deal & Wilkinson, Contrs., 209 S. Church St.

Okla., Tulsa—Hanna Lumber Co., 401 S. Peoria St., is erecting number of dwellings for various persons, Dent subdivision; frame, brick veneer and shingle, 1 and 2 stories, 5 to 9 rooms, cement block and poured concrete foundations, stained edge grain shingle roofs, oak and concrete floors, hollow and interior tile, ventilators, steel sash and trim, cost \$5000 to \$10,000 each; C. W. Brott, Archt., 3 N. Vancouver St.; heating, Dean & Stephens; electric work, Montgomery Electric Co., Fourth and Peoria Sts.; plumbing, Helzer Plumbing Co.*

Tenn., Martin—Lucian Long will erect brick veneer bungalow, Oakland St.; 6 rooms; W. L. Dildine, Contr.; lumber from A. S. Johnston Lumber Co.

Tex., Brownsville—A. D. Dickinson is erecting \$30,000 residence, El Jardin, Acacia Island.

Tex., Dallas—Dallas Home Bldg. Co., 4908 S. Central St., will erect 7 frame dwellings, Jerome St., East Dallas; cost \$2500 each; A. S. Childers, Contr.

Tex., Dallas—B. F. Farrar will erect 8 dwellings, Griffith St., Oak Cliff; cost \$2500 each; A. S. Childers, Contr., 115 Field St.

Tex., Plainview—W. J. Mitchell has contract for 5-room residence, 6th St., for Oscar Mitchell and one for Dr. D. H. Moore.

W. Va., Huntington—O. C. Bobbitt, 937 Tenth Ave., will erect \$17,000 residence, Holswade Park; 9 rooms, brick; R. L. & Sidney L. Day, Archts.; W. J. Connell, Contr.*

W. Va., Huntington—Dr. Ray Bobbitt, 421 Eleventh St., will erect \$14,700 residence, Holswade Park; 7 rooms, brick; R. L. & Sidney L. Day, Archts.; W. J. Connell, Contr.*

W. Va., Huntington—Miss Mamie Cook will erect residence, Holswade Park; Levi J. Dean, Archt.; W. J. Connell, 1647 6th Ave., Contr.

W. Va., Huntington—W. H. Weller, 1st Natl. Bank Bldg., will erect residence, Holswade Park; Robt. Willett, Archt.; Dan Shepherd, Contr.

Government and State

Tenn., Nashville—Board of State Fair Commissioners, Mr. Hickman, Judge, let contract at about \$150,000 to Sumner Construction Co. for amphitheater containing livestock pavilion at State Fair Grounds; seat about

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4600; concrete; pavilion 116x230 ft.; Joe Holman, Archt., Stahlman Bldg.

Hospitals, Sanitariums, Etc.

Ala., Talladega—Citizens Hospital. W. L. Dumas, member Board of Directors, purchased Synodical College and is repairing for hospital; cost \$12,000; will purchase equipment. (Lately noted to erect hospital.)*

La., Haynesville—Haynesville Hospital. Inc., let contract for \$70,000 hospital and sanitarium building to Buchanan Contracting Co.*

La., New Orleans—Touro Infirmary let contract at \$61,608 to O. M. Gwin Construction Co., 832 Common St., for addition to nurses' home and improving hospital building, including new screens, floor covering and Venetian blinds; Emile Weil, Archt., Whitney Bldg.*

Md., Baltimore—Johns Hopkins Hospital. Dr. Winford H. Smith, Supt., Monument St. and Broadway, let contract for \$650,000 fireproof nurses' home to Consolidated Engineering Co., 20 E. Franklin St.; Italian Renaissance type, brick, limestone and steel, 8 stories, 142 ft. on Broadway with 107-ft. wing; swimming pool; Jos. Evans Sperry, Archt., 401 Calvert Bldg.; H. F. Woleman, Struct. Engr., 507 N. Charles St.; C. L. Reeder, Mech. Engr., 916 N. Charles St.*

Mo., O'Fallon—St. Mary's Institute, Mother M. Wilhelmine, Supervisor, will erect \$150,000 chapel and infirmary; 1 story and basement, brick; Ludwig & Dreisoerner, Archts., 3543 Humphrey St., St. Louis; G. C. Holt-haus, Contr., O'conee, Ill.

Mo., St. Louis—Sisters of Mercy, Euclid and Parkway Sts., will erect \$100,000 hospital addition; 5 stories, 93x50 ft., brick; G. D. Barnett, Archt., Syndicate Trust Bldg.; Ratermann Building & Contracting Co., Contr., 1943 St. Louis St.

N. C., Henderson—Maria Parham Hospital, Inc., is erecting \$50,000 hospital building, Chestnut and Orange Sts.; 3 stories, fireproof, brick, hollow tile, steel and concrete, 35 rooms, electric elevator; Linthicum & Linthicum, Archts., 117 W. Market St., Raleigh; Patterson & Carter, Contrs.*

Va., Richmond—Johnston-Willis Hospital will erect \$75,000 home for nurses, superintendents and officials, Colonial Ave.; 3 stories, 50x70 ft.; training school on first and second floors; Marcellus E. Wright, Archt.; Wise Granite Construction Co., Contr., both American National Bank Bldg.

Hotels and Apartments

Fla., Miami—H. B. Greene let contract to J. D. Culmer for \$27,000, 8-family apartment building, N. E. 22nd St.

Fla., Miami—Cromer & Cassell let contract to P. J. Davis Construction Co., Calumet Bldg., for \$60,000, 3-story, 50x145 ft., cement block and stucco apartment building, 345 N. W. Third St.; wood floors, concrete foundation, composition roof; Robertson & Patterson, Archts., 202 Calumet Bldg.*

Fla., Sarasota Beach—Frank Roberts is adding 100 bathrooms to resort and making other improvements.

Fla., St. Petersburg—G. A. Miller, Pette-way Bldg., Tampa, Contr. for \$2,000,000 Vinoy Park Hotel, let contract to Converse Bridge & Steel Co., Chattanooga, for steel roof trusses of dining room and ballroom.*

Fla., Stuart—E. K. Long will erect \$30,000, 2-story and roof garden, 16-apartment building; concrete frame and tile, 16 bathrooms, ceramic tile floors; John N. Sherwood, Archt., 208 Sunrise Bldg., Fort Pierce; owner builds.

Fla., Tampa—Tracy Goble, 2713 North A St., started work on \$35,000, 2-story, stucco and tile, 42x75-ft., fireproof, 12-apartment building, 916 S. Rome St., mahogany finish, hardwood floors; 6 garages in rear.

Fla., Vero—Mrs. Theodore Weiss let contract to B. W. Strickler for 2-story, 8-family apartment building in Royal Park.

Ga., Cordele—Churchwell Brothers, Jacksonville, Fla., let contract to J. C. Hind, Albany, for 3-story, hollow tile and stucco, 60-room hotel building; concrete and wood floors, concrete foundation, tar and gravel roof, ventilators, steel sash and trim, ornamental terra cotta; plans by Contr.

Ky., Paducah—Mrs. Annie Alcock let contract to Hosey Quinn for \$24,000, 4-apartment building, Sixth and Madison Sts.; D. Harry Jamieson, Archt.

Mo., St. Louis—J. W. Jones, 4982 Thekla St., will erect two 2-story, brick, 27x49 ft. tenements, 4879-83 Farlin St.; \$14,000, slate-coated shingle roofs, furnace heat; owner is Builder and Archt.

Mo., St. Louis—W. O. Long, 5577 Delmar

St., is remodeling 3-story, brick apartment buildings, with day labor; \$10,000; hardwood and concrete floors; D. Jepson, Archt. (See Machinery Wanted—Floor Sand-Papering Machine.)*

Mo., St. Louis—Wagner-Grant-Bell Realty Co., 722 Chestnut St., will erect three 2-story, 37x43 ft. tenements, 6245-49-53 Northwood St.; \$54,000, composition roofs, steam heat; owner is Builder and Archt.

Mo., St. Louis—L. Goldstein, 1400 Good-fellow St., let contract to Pomeroy Construction Co., 805 Chestnut St., for \$10,000, 2-story, 34x50-ft., brick tenement, 1968-70 Semple St.; tar and gravel roof, furnace heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—S. Hamburg, Arcade Bldg., let contract to Boaz-Kiel Construction Co., 101 Chouteau Trust, for \$300,000, brick, 4-story, 80x206-ft. tenement and garage building, 4616 Lindell St.; composition roof, steam heat.

Mo., St. Louis—J. Mengerson, 2827 Whit-tier St., let contract to A. Bosler, 2233 Mc-Nair St., for \$20,000, 2-story, brick, 38x53-ft. tenement, 4101-3 Marcus St.; tar and gravel roof, hot-air heat; G. Reid, Archt., 4552 Var-relman St.

Mo., St. Louis—Modern Realty Co., Title Guaranty Bldg., let contract to Pomeroy Construction Co., 805 Chestnut St., for \$10,000, 2-story, brick, 34x50 ft. tenement building, 3827-9 Folsom St.; tar and gravel roof, furnace heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—H. E. Ploeger, 3946 St. Louis St., let contract to H. Kissels' Sons, 4111 W. Florissant St., for \$10,000, 2-story, 28x48-ft. tenement, 4869 Kossuth St.; hot-water heat, asphalt shingle roof.

Mo., St. Louis—V. Rowe, 3129 N. Grand St., let contract to J. C. Mueller & Son, 3129 N. Grand St., for three 2-story, brick, 25x42-ft. tenements, 4839-43 Kossuth St.; \$23,700, tile roofs, hot-air heat; Nolte & Nauman, Archts., 615 Fullerton St.

Mo., St. Louis—A. Wagner 5630 Delmar, will erect four 2-story, 24x44-ft. tenements, 2039-49 Alfred St.; \$28,000, composition gravel roof, steam heat; Avis & Schram, Archt., 10th and Locust Sts.

Mo., St. Louis—Sam and Nat Koplar have plans by Preston J. Bradshaw, Intl. Life Bldg., started work on \$1,000,000, 8-story, brick with terra cotta and stone trimmings, 80-apartment building, S. E. Cor. Washing-ton and Union Bldgs.

Mo., St. Louis—Mars Realty Co., Interna-tional Life Bldg., will erect two 2-story, 25x 41 ft. tenements, 5529-33 Hebert St.; composition roof, steam heat; H. H. Sims, Build-er and Archt., 4947 Buckingham St.

Mo., St. Louis—May Building & Invest-ment Co., 808 Chestnut St., will erect two 2-story, brick, 34x52 ft. tenements, 4537-41 Shenandoah St.; \$20,000, composition and tile roofs, steam heat; O. J. Popp, Archt., Arcade Bldg.; owner builds.

Mo., St. Louis—E. Wells, 207 Fidelity, will erect two 2-story, 34x46 ft., brick tenements, 3945-9 Miami St.; \$24,000, gravel roof, hot air heat; J. J. Gilbane, Archt., 207 Fidelity; owner builds.

Mo., St. Louis—West End Realty & Con-struction Co., 6511 Delmar St., will erect six 34x50 ft. tenements, 5141-63 Palm St. \$60,000 and \$30,000, 98x34 ft., tenement 3603-11 Geraldine and 5203 Palm St.; 2 sto-ries, brick, tile roofs, steam heat; C. L. Thurston, Archt., Webster Groves; owner builds.

Mo., St. Louis—B. & P. Bulla, 3656 Wil-mington St., will erect two 2-story, brick, 24x37-ft. tenements, 5631-3 Dewey St.; \$10,000; tar and gravel roofs, hot-air heat; H. Schaumburg, Jr., Archt., 3631 Connecticut St.; owner builds.

Mo., St. Louis—Glyn Eyre Investment Co., 721 Chestnut St., let contract to Missis-sippi Valley Construction Co., 802 Chestnut St., for \$25,000, 2-story, brick, 73x98-ft. tenement, 3850-8 California and 2749-55 Keokuk St.; composition roof, steam heat; H. F. Sheehan, Archt., 108 N. 8th St.; also \$20,000, 2-story, 104x39-ft. store and tene-ment, 3804-8 California St.; same Contr. and Archt.

N. C., Charlotte—F. W. Garthwait let con-tract to Westchester Engineering Co. for \$15,000, 33-room, 30x78-ft., 9-family apart-ment building, Statesville Ave.

N. C., Winston-Salem—J. G. and S. W. Morrisett, 1328 W. 4th St., let contract to D. R. Vaughn, for \$10,000, 2-story, frame, 30-room apartment house, Hawthorne Road and Beech St.*

Okla., Oklahoma City—Charles M. Dunning Construction Co., N. Hudson St., Contrs. for alterations to Huckins' Hotel, let following sub-contracts: millwork, Oklahoma Sash & Door Co., 8 E. Grand St.; brick, Lumber-

men's Supply Co., American National Bank Bldg., all Oklahoma City; granite, Cold Spring Granite Co., Cold Spring, Minn.; terra cotta, Winkle Terra Cotta Co., St. Louis.*

Okla., Oklahoma City—C. E. Human has contract for \$40,000 apartment house, 1500 N. Broadway.

Tenn., Nashville—Hopton Brothers have contract for plastering work on \$500,000 Memorial Apartment Hotel, Seventh and Cedar Sts. and \$1,000,000, 12-story Andrew Jack-son Hotel.*

Tenn., Nashville—R. R. Ogilvie & Co., 4th and 1st Bldg., erecting Ambassador Apart-ment Building, 25th Ave., South, and Kirk-land Ave., to consist of 30 apartments.

Tex., Beeville—Joe Thomas has contract for converting upper floor of Praeger's store into 6 apartments; Albert Yoeman, papering and painting; George Gunlock, electrical work; Burrows Hardware Co., plumbing.

Va., Richmond—Albert Pick & Co., 212 W. Randolph St., Chicago, Ill., have contract for furnishing and equipping at \$150,000 William Byrd Hotel under construction at Davis Ave. and Broad St., by Wise Granite & Construc-tion Co., Inc., American Natl. Bank Bldg.*

W. Va., Martinsburg—Clinton S. Bailey, Virginia Ave. and Addison St., will erect \$10,500, 2-story, frame, four 7-room apart-ment buildings, 502-4 S. Raleigh St.; owner will supervise work.

Miscellaneous

Ala., Birmingham—Holley & Davis, Contrs., Ensley, has contract for Roebuck Country Club building; address S. Lovell Yerkes, Pres.

Md., Baltimore—St. Vincent Infant Asy-lum, 1401 Division St., let contract to Frainle Bros. & Hagley, 16 E. Franklin St., for \$30,000, 102x40-ft., 2-story, brick addition, S. W. side Reisterstown Rd., north of Patter-son Ave.*

Mo., St. Louis—Neighborhood Association, 19th and Washington Sts., let contract to J. Hill Construction Co., 10th and Locust Sts., for \$98,750, 3-story, brick, 142x62-ft. building, 1000-12 N. 19th St.; concrete roof; W. B. Ittner, Archt., 9th and Locust Sts.

Mo., University City (Sta. St. Louis)—Flint Garrison, 1627 Locust St., let contract to Lotz Construction Co., 406 Dolph Bldg., for \$20,000, reinforced concrete grandstand for open air theater and park; John Stephens, Archt., Chemical Bldg.

S. C., Denmark—Wash Hightower is erect-ing building on Beech Ave. for undertaking establishment.

Tex., Fort Worth—Union Gospel Mission has broken ground for \$100,000 building, 15th and Houston Sts.; 4 stories and base-ment, 100 rooms; S. B. Mayfield, Supt.

Schools

Fla., Gainesville—Epsilon Zeta Chapter of Sigma Nu Fraternity is erecting \$50,000, "T" shaped home, facing University Ave.; in-clude sleeping, living and dining quarters, library and guest room, chapter room and dormitory on third floor.

Fla., Orlando—School Board is erecting \$74,950, brick Junior High School building, Magnolia Ave.; cost of equipment and fur-nishings \$15,000; Winter Park Plumbing Co., Winter Park, Dunham system heating at \$10,000; Jacob Burkhardt, plumbing at \$8822; H. M. Reynolds, Archt., O. B. & T. Bldg.*

Fla., West Palm Beach—St. Ann's Catholic Church let contract to Chalker, Lund & Crit-tenden for \$120,000 parochial school, Olive St. and First Ave.; J. C. Gault, Archt., Real Estate Bldg., Miami.*

Ga., Augusta—C. H. Van Ormer, Herald Bldg., Contr. for 3-story dormitory at Paine College, let following sub-contracts: heating and plumbing, E. J. Erbeling & Sons, 516 Broad St.; electrical work, Young Electrical Works; millwork, Perkins Manufacturing Co., 620 13th St.; lumber, Woodward Lumber Co.; brick, Georgia-Carolina Brick Co., Lamar Bldg.*

Miss., Yazoo City—Ezell Construction Co., Canton, started work on \$15,000 dormitory to replace Yazoo County Agricultural High School, recently destroyed by fire; 36 bed-rooms, lobby, reading room and bathing facil-ities.

Mo., Carthage—Ozark Wesleyan College, Dr. Wm. Wirt King, Pres., let contract to George Fuller Green Construction Co., 429 Rialto Bldg., Kansas City, at \$215,679 for administration building, first unit of college plant; Bonsack & Pearce, Archts., Republic Bldg., St. Louis.*

Mo., Normandy—Passionist Preparatory Col-lege is erecting \$160,000 addition to be com-pleted August 1; provide dormitories, study halls, classrooms and enclosed cloister con-

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necting main building with new chapel; O'Meara & Hills, Archts., Arcade Bldg.; Duffner & Stecker Construction Co., Contrs., 119 N. 7th St.; both St. Louis.

N. C., Asheville—Buncombe County Board of Education let contract to Gaskill Construction Co., Wilson, at \$73,900, for erecting Valley Springs School in Limestone Township, near intersection Long Shoals Road and Overlook Drive; Harding Heating & Plumbing Co., Greensboro, heating and plumbing at \$7648.

N. C., Lexington—Board of School Commissioners let contract to W. Lee Harbin, at \$99,928, for Cecil Elementary School, E. Center and S. Church Sts.; American Heating & Ventilating Co., Allen Bldg., Raleigh, heating at \$14,000; Sanitary Plumbing & Supply Co., Leaksville-Spray, plumbing; C. Gadsden Sayre, Archt., Greensboro.*

Okla., Hooker—Board of Education let contract to S. S. Strong, Manter, Kan., for \$26,400, 2-story and basement, 8-room school building; Guy Holt, Perryman, Tex., heating and plumbing; Butler Co., Archts., Oil Exchange Bldg., Oklahoma City.*

S. C., Greenville—School Board, G. W. Sirrine, Chmn., let contract to Poe Hardware & Supply Co. for \$15,000 central heating plant at High School on Westfield St.*

S. C., Greenville—H. S. Beck Plumbing Co. has contract for plumbing work and fixtures in gymnasium, under construction by Gallivan Building Co., at High School building.*

Tenn., Brayton—Bledsoe County Board of Education, Samuel Hixon, Supt., Pikeville, let contract to H. A. Mansfield for consolidated school building.

Tex., El Paso—School Board let contract to George Beaudette for \$32,856, 2-story, 8-room, brick and concrete Woodlawn School, Hammett and Pera Sts.

Tex., Fabens—Board of Trustees Fabens School District, C. R. Bills, Sec., let contract to J. S. Morris for \$59,000 High School building; 21 rooms, auditorium with stage, offices and library; Trost & Trost, Archts., Two Republics Bldg., both El Paso.*

Tex., Marshall—Wiley College, W. M. Dogan, Pres., let contract to Quisile & Andrews, 2212 W. 7th St., Fort Worth, at \$52,349, for 3-story and basement, brick, concrete and stone, 53-170 ft., 86-room girls' dormitory; E. K. Scott Plumbing & Heating Co., Fort Worth, heating and plumbing at \$11,995; John Carpenter, Archt.*

Tex., Palestine—Martin-Wright Electrical Co., San Antonio, has contract for electrical wiring in Junior High School at \$2694; J. D. Pickett, Pres. School Board.*

Tex., Spring Lake—School Board let contract to H. H. Shell, at \$28,048, for 1-story, brick and tile, 113x84 ft. school building; concrete foundation, hollow tile; major items to be purchased include desks and seats; M. C. Butler, Archt., Lubbock.*

Stores

Ala., Birmingham—E. T. and W. B. Douglass, 2500 15th Ave. S., let contract to Charles M. Allen & Son, Inc., 408 1/2 N. 19th St., for \$110,000, reinforced concrete, 6-story, 50x140 ft. retail furniture building, 1616-18

Second Ave., for Cain Furniture Co.; tar and gravel roof, cement floors, concrete foundation, hollow tile, metal ceilings, metal doors, steel sash and trim, wire glass; Pate Co., heating and plumbing; private plans.*

Ark., Little Rock—Joe D. Back & Bro., 410 Main St., let contract to Ault & Burden, 117 N. Second St., for \$160,000, 4-story and basement, 50x140-ft., fireproof, concrete, brick, steel and stone department store building, Main and Fifth Sts.; tar and gravel roof, tile and cement doors, reinforced concrete foundation; Mann & Stern, Archts., A. O. U. W. Bldg.*

Fla., Lake Alfred—Fred A. Hall and E. C. Chamberlin, both Orlando, started work on \$75,000, brick and tile store and apartment building, Haynes Blvd.

Fla., Orlando—E. R. Phillips let contract to Stout-Dietrich Co., Winter Park, for \$40,000, fireproof, Spanish type store and apartment building, E. Park and Canton Aves.*

Ky., Ashland—W. H. Slone, Contr., started work on \$15,000, 2-story, brick building, 13th St., for W. E. Meyers; 3 stores on ground floor, sleeping rooms above.

Ky., Louisville—United Realty Corp., 307 S. Fifth St., let contract to Buchheit Construction Co., for \$40,000, 2-story, 67x200 ft., brick and frame building, 637 S. Fifth St.; composition and slate roof, maple and concrete floors, concrete foundation, metal doors, ventilators, steel sash and trim, wire glass; E. T. Hutchings, Archt., 418 S. Fifth St.*

Miss., Ripley—Drewrey & Craig Co. has contract for 3 brick business buildings.

Mo., St. Louis—Belt & Bell Jewelry Co., 5069 Delmar St., let contract to Cross Bros. Construction Co., 5359 Minerva St., for \$11,500, 2-story, brick, 29x25 ft. store and dwelling addition, 5069 Delmar St.; S. Abraham & Son, Archts., Chemical Bldg.

Mo., St. Louis—K. Kroupa, 4401 Delor St., let contract to B. Charleville Co., 114 N. Seventh St., for \$14,000, 2-story, 45x50 ft. store and tenement, 5202-4 Wiesehan St.; composition roof, furnace heat; R. A. Conzelman, 114 N. 7th St.

Mo., St. Louis—Glyn Eyre Investment Co., 721 Chestnut St., let contract to Mississippi Valley Construction Co., 802 Chestnut St., for \$20,000, 2-story, brick, 104x39-ft. store and tenement, 3840-8 California St.; W. F. Sheehan, Archt., 108 N. 8th St. (See Building Contracts Awarded—Hotels and Apartments.)

N. C., Greensboro—W. C. Boren, 2300 Spring Gardens, has plans by Harry Barton, Jefferson Bldg., let contract to J. R. Owen, for \$55,000, 5-story and basement, 40x90 ft. building, Greene and Gaston Sts., to be occupied by Johnson-Forbis-Simmons Furniture Co., 206 W. Market St.; steel framework, tile, finished with brick veneer, terra cotta trimmings.*

S. C., Chester—Clark Furniture Co. purchased building on public square, let contract to Piedmont Contracting Co. for remodeling.

Tenn., Memphis—F. J. Ozanne, Madison Ave. Bldg., has contract for rebuilding structure at 18-22 S. Main St., for Twenty South Main Street Corp.; \$30,000; include division of third story into offices, installation of 2 furnished basement rooms for stores; E. L. Harrison, Archt., Fidelity Bk. Bldg.

Tenn., Memphis—Halle Bros., 55 N. Main St., let contract to McKnight & Fincher, 63 S. Third St., for remodeling brick store building; \$65,000, rubber tile floors, composition roof, metal doors, vaults; Hughes Heating Co., 248 Court St., heating; Dawkins Electric Co., 26 N. 2nd St., electric work; Pritchard Brothers, 433 Madison St., plumbing; Otis Elevator Co., 246 Court St., elevator; Jones & Furbringer, Archts., Porter Bldg.*

Tex., Beaumont—Max Feinberg, 444 Orleans St., let contract to J. E. Heartfield, 1062 Orange St., for 2-story, brick and steel mercantile building, Bowie, between Orleans and Park Sts.; J. C. Beck, Archt., 208 N. Blanchette Estate Bldg.

Tex., Corpus Christi—T. W. Putnam and H. H. Edwards, 709 Blucher St., let contract for \$13,500, 2-story, concrete frame, hollow tile and brick, 50x50 ft., store and office building, Starr St.; A. A. Callaway, Archt.*

Tex., Jasper—V. G. Hart let contract for brick store building.

Tex., Plainview—S. T. Cooper let contract to Bill Mitchell for 16x50 ft., interlocking tile with brick front building, Broadway.

W. Va., Huntington—Isadore Hyman, 5th and Boulevard, let contract to C. W. Harer, 1029 Euclid Pl., for \$50,000, 5-story, brick, 30x125 ft. building, to be occupied by Fetter Bros. Furniture Co., 806 N. 4th Ave.; James J. Weller & Son, R. and P. Bldg., has contract for about 125 tons steel.

Theaters

S. C., Newberry—Donald M. Evans is remodeling building into motion-picture theater; Mr. Barnette, Contr., Rock Hill.

Warehouses

Ga., Atlanta—Selig Co., 336 Marietta St., let contract to Charles Bernhardt, for \$40,000, 50x80 ft., 3-story and 2 basements, mill construction warehouse, 342-44-46 Marietta St.*

Ga., Atlanta—Simmons Co., 23 Jones Ave., is erecting \$37,000, 2-story and basement, 146x75 ft., brick, non-fireproof warehouse; wood and concrete floors, concrete foundation, built-up roof, metal doors, steel sash, wire glass; Jas. Shepherd Co., Contrs., 101 Marietta St.*

Ga., Baxley—Appling Tobacco Co. started work on 2 tobacco sales warehouses; each 100 x200 ft.

Okla., Oklahoma City—Mont F. Highley, First Natl. Bank Bldg., let contract to W. S. Bellows Construction Co., Hersk Bldg., at \$42,000, including heating and plumbing, for 100x140 ft., 1 story, brick warehouse; Monnott & Reid, Archts., Elks' Club Bldg.*

Tex., Dallas—John J. Simmons, Wilson Bldg., let contract to Inge Construction Co., 504 Swiss St., for two fireproof, reinforced concrete warehouses, to be occupied by Piggy-Wiggly Stores, Inc., and Graham Paper Co.; 3 and 4 stories, \$115,000; J. A. Pitzinger, Archt., S. W. Life Bldg.*

Tex., El Campo—Mr. Weaver started work on 100x300-ft. rice warehouse.

Tex., Panhandle—Dunningan Tool & Supply Co. erecting additions to warehouse, W. 2nd St.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Acetylene Burner.—Auto Table Co., K. B. Harvey, V. P., 20th St. and Jamaica Ave., Richmond Hill, New York.—Wants acetylene burner.

Air Compressor.—High Point Furniture Co., High Point, N. C.—Wants one air compressor.

Architect's Catalogs.—Thomas S. Browne, 11 Paragon Bldg., corner Hawwood & Patton Ave., Asheville, N. C.—Wants architect's catalog.

Automotive Supplies, etc.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids April 9 to furnish automotive supplies, etc.; delivery Quantico, Va.; Sch. 535.

Boilers.—Herendeen, Inc., R. G. Bergeman, Engr., Miami Beach, Fla.—Wants prices on horizontal tubular and water tube boilers, A. S. M. E. working pressure 150 lbs., fired with fuel oil; cost per h. p.

Bottles (Glass).—O. N. Richardson, Rome, Ga.—Wants glass ink bottles from one quart, pint, half pint, down to smallest ones for retail.

Bridge.—State Highway Comn., Montgomery, Ala., will build 2 bridges. See Construction News—Road and Street Construction.

Bridge.—Louisiana Highway Comn., Baton Rouge, La. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—City of Antonio, Tex. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Dept. of Highways and Public Works, Nashville, Tenn., will build 3 bridges. See Construction News—Road and Street Construction.

Bridge.—Drainage Dist. No. 2, Houston, Tex. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Highway Dept., East Point, Ga., will build 2 bridges and approaches. See Construction News—Road and Street Construction.

Bridge.—Oklahoma County, Oklahoma City, Okla., will build 7 bridges. See Construction News—Bridges, Culverts, Viaducts.

Brushes.—See Paints, etc.

Brushes (Sink), etc.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 15 for 36 doz. sink, palmetto, brushes; the Fuller Brush Co.'s No

23629 or equal; 24 doz. vinegar cruets, glass Joisting & Schilling Co.'s 272-G or equal.

Building Material and Equipment.—The Yarrow Construction Co., 321 Legal Bldg., Asheville, N. C.—Wants prices on material and equipment for general construction work.

Catalogs of Instrumental Drafting.—E. T. Dickinson, Pres., Livingstone Academy, 1517 Rhode Island Ave., N. W., Washington, D. C.—Wants catalogs, samples, etc., for architectural, mechanical, electrical drawing.

Cars (Coal Mine).—G. R. Mueller Co., Brown-Marx Bldg., Birmingham, Ala.—Wants 30 to 35 coal mine cars, 36-in gauge, top of cars not to exceed 22-in. above tracks.

Cast Iron Pipe, etc.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 18 to furnish f.o.b. cars factory, 22,000 lin. ft. of cast iron pipe and fittings.

Cement (Portland).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Apr. 11 to furnish 1850 bbls. Portland cement; delivery to Post Quartermaster, Marine Barracks (Port Royal) Parris Island, S. C. Sch. 543.

Chairs.—U. S. Veterans' Bureau, Supply

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Division, Washington, D. C.—Receives bids April 15 for 1000 wood seat chairs, Douglass type, finished in white enamel.

Cold Rolled Steel.—Perfected Window Co., 12 Mechanic St., Newark, N. J.—Wants 46,450 lbs. of No. 16 U. S. gauge bright finish cold rolled, dead soft strip steel, to be furnished in rolls of not less than 200 lin. feet, various widths and sections.

Coal Crusher.—G. R. Mueller Co., Brown-Marx Bldg., Birmingham, Ala.—Wants coal crusher capable of crushing 30 to 35 tons of coal per hour, 14 or 16-in. cubes down to 2-in. and under.

Concrete Work.—Allen P. Beach, Basin Harbor Lodge, Vergennes, Vermont.—Wants data and prices on concrete walks and glazed concrete dance floor, in connection with repairs and alterations to Umatilla Lodge, Umatilla, Fla.

Condenser.—See Turbine Alternator.

Cut Stone.—Geo. W. Donaghey, New Donaghey Bldg., Little Rock, Ark.—Wants bids on cut stone for \$1,000,000 office building; 14 stories.

Curtains (Fireproof).—Dist. Commrs. Room 509 Dist. Building, Washington, D. C.—Receives bids April 16 to furnish and install fireproof proscenium curtains on stages of Western and Armstrong High Schools.

Desks (Nurses).—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids April 10 for 12 nurses' desks with chart files, etc.; Hospital Supply Co.'s "Crandall," Catalog No. 5548, or equal.

Drainage Structures.—Colquitt County, Moultrie, Ga., will build drainage structures on 4 roads. See Construction News—Bridges, Culverts, Viaducts.

Elevator.—City of Houston, Tex., O. F. Holcombe, Mayor.—Receives bids April 13 to furnish one freight elevator.

Elevators.—Geo. W. Donaghey, New Donaghey Bldg., Little Rock, Ark.—Wants bids on 4 high-speed passenger and 1 freight elevator for 14-story office building.

Engines.—Herendeen, Inc., R. G. Bergeman, Engr., Miami Beach, Fla.—Wants prices on simple and compound engines, slide valve non-condensing, direct connected to generators, cost per h. p.

Engine (Gasoline).—G. R. Mueller Co., Brown-Marx Bldg., Birmingham, Ala.—Wants one 20 h. p. gasoline engine.

Engine (Steam).—M. A. Ribaud, Box 8472, Miami, Fla.—Wants data and prices on 5 h. p. marine steam engine.

Envelopes, etc.—Post Office Dept., Harry S. New, Postmaster, Washington, D. C.—Receives bids April 14 to furnish official envelopes and registered package jackets, for postal service during one year beginning July 1; also on April 20 to furnish letter boxes, combination package and letter boxes, storage boxes and letter box fasteners, etc.

Fertilizer Mixing Plant Machinery.—De Ridder Chamber of Commerce, J. K. Smith, Sec., De Ridder, La.—Wants data and prices on machinery for fertilizer mixing plant.

Fire Boat.—B. C. Allin, Director of Port of Houston, 5th Floor Courthouse, Houston, Tex.—Receives bids April 30 for fire boat, steel hull, length 125 ft. 10-in., beam 27 feet, draft 8 feet, 6-in.; twin screw, Diesel electric type fully electrically controlled; equipped with two Diesel engines of approximately 500 h. p. each; two pumps on board each to deliver 3500 gal. per min. at 150 lb. pressure; also three pumps to work in series, providing 3500 gals. per min. at 300 lbs. pressure; install latest equipment for chemicals, searchlights, alarms, signalling devices, etc.; Cox & Stevens, Naval Archts., 25 Broadway, New York City.

Fire Station.—See Water Supply Improvements, cost per Kv.-a.

Floor Sand-Papering Machine.—W. O. Long, 5577 Delmar St., St. Louis, Mo.—Wants subcontract bids on sandpapering machine for hardwood floors.

Generators.—Herendeen, Inc., R. G. Bergeman, Engr., Miami Beach, Fla.—Wants prices on generators, A. C. 220 volt, 3 phase, 60 cycle, D. C. 220 volt, including generator panels, cost per Kv.-a.

Generator Set.—Dachner Electric Equipment Co., 236 Rialto Bldg., San Francisco, Cal.—Wants one 500 to 750 kw. synchronous motor generator set, 250 volt, D. C., 2200 volt, A. C., 3 phase, 60 cycle; must be self-starting and have compounded generator.

Glue Clamps.—See Woodworking Machinery.

Grading.—City of Washington, D. C. See Construction News—Road and Street Construction.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Receives bids April 30 to furnish gravel for 9.24 mi. road

mond Bldg., Baton Rouge, La.—Receives bids in Franklin Parish and 4.43 mi. road in St. Landry Parish; plans on file; W. B. Ribert, State Highway Engr.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Receives bids April 30 to furnish gravel for 7.15 mi. Vermilion Parish, 3.83 mi. Natchitoches Parish and 7.15 mi. Union Parish; plans on file; W. B. Robert, State Highway Engr.

Hauling.—Arkansas State Highway Comsn., Herbert R. Wilson, Chrmn., Little Rock, Ark.—Receives bids April 10 for hauling approximately 7472 cu. yds. stone, various distances.

Hoist (Electric).—Hackley Morrison Co. (Mchy. Dealer); 708 Lewis St., Richmond, Va.—Wants single drum electric hoist, 3 phase, 60 cycle, 220 or 230 volt, capacity 2000 lb., rope pull, estimated about 25 h. p.; used preferred.

Ice Making and Refrigerating Machines.—Herendeen, Inc., R. G. Bergeman, Engr., Miami Beach, Fla.—Wants prices on ice making and refrigerating machines, capacity ranging from 10 to 50 tons, direct connected to steam engines, also belted motors, cost per ton.

Janitor Supplies.—Board of Awards, F. A. Dolfield, Register, Baltimore, Md.—Receives bids April 15 for janitor supplies for Department of Education; John H. Roche, Sec. Board of School Commrs.

Levee.—Office of Mississippi River Comsn., 1311 International Life Bldg., St. Louis, Mo.—Receives bids April 28 to construct about 300,000 cu. yds. earthwork by hydraulic methods in Iowa River, Flint Creek Levee Dist., No. 16, Iowa.

Linoleum.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 17 to furnish 150 sq. yds. linoleum, light battleship, 1-8 inch thick, plain tan.

Locomotives.—The Shurtle Machine Co., 359 Dublin Ave., Columbus, Ohio.—Wants two second-hand, 30 to 35-ton, standard gauge, saddle tank locomotive; Ohio delivery.

Machine Shop Equipment.—W. E. Toler, Pawnee, Okla.—Wants data and prices on machine shop equipment.

Miscellaneous Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids April 10 to furnish 100 trumpets, 1000 lbs. binding twine, 6000 lbs. target paste and 100 gal. stencil ink; delivery 1100 S. Broad St., Philadelphia, Pa. Sch. 534.

Machine Shop.—The Autocyclic Co., Inc., 835 Conti St., New Orleans, La.—Wants to purchase suburban factory, within radius of 100 mi. of New York, Baltimore or Pittsburgh; completely equipped with modern machine tools will be considered.

Miscellaneous Supplies.—Luis de Torres, 39 Begovia, Madrid.—Wants to correspond with manufacturers of following with view to representation: Automobiles; auto-trucks; motor cycles; pneumatic, air-tanks and lanterns for automobiles, etc.; leather for shoes; lubricating oils, grease, gasoline, etc.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids April 21 to furnish steel, pipe, boiler tubes, molding machine, scales, safes, pumps, chain glass, welding wire, electrode holders, hacksaw blades, files, turnbuckles, wrenches, boiler punches, stocks and dies, harness leather, floor wax, etc. Blank forms and information (Circular 1662) on application to offices of Panama Canal; Asst. Purchasing Agents at New York, New Orleans, Fort Mason, San Francisco, Cal.; also U. S. Engineers offices throughout country.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, Purchasing Officer, Washington, D. C.—Receives bids April 13 to furnish reamers, staybolt taps, ring bolts, brass bolts, tinners' shears, smoothing planes, grass hooks, jack planes, launch lights, carving knives, pool room supplies, enamelware, cotton thread, steel erasers, pens, etc. Blank forms and information (Circular 2380) on application to offices of Panama Canal; Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Motor.—R. S. Armstrong & Bro. Co. (Mchy. Dealer), 676 Marietta St., Atlanta, Ga.—Wants 100-h. p., 3-phase, 60-cycle, 2200 volt, 900 rmp. slip ring motor.

Motor Buses.—W. E. Toler, Pawnee, Okla.—Wants data and prices on motor buses, etc., for cross-country transportation.

Motors.—See Pumps and Motors.

Moulder and Edger.—See Woodworking Machinery.

Nails.—See Paints, etc.

Nickle Plating Outfits.—Mrs. T. F. Cordray, Gulfport, Miss.—Wants data and prices on nickle plating outfits.

Oil Refinery.—J. Hardwick Jackson, 405

Marion Bldg., Augusta, Ga.—Wants data and prices on "one-man refinery" to refine petroleum, extract lubricating oils, gas, etc.

Oil Tank.—Dr. H. F. Bent, Midville, Ga.—Wants data and prices on second-hand oil tank of 8000 gal. capacity.

Overpass.—Robertson County, Franklin, Tex. See Construction News—Bridges, Culverts, Viaducts.

Paints, etc.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids April 11 to furnish paint, brushes, nails, etc.; delivery Marine Barracks, Parris Island, S. C. Sch. 545.

Painting.—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore, Md.—Receives bids April 15 for interior painting at No. 4 truck company, McCulloch St. near Preston; C. H. Osborne, Inspector of Buildings.

Paving.—City of Vicksburg, Miss. See Construction News—Road and Street Construction.

Paving.—City of Baltimore, Md. See Construction News—Road and Street Construction.

Planer (Cabinet).—See Woodworking Machinery.

Pumps.—See Turbine Alternator.

Pumps and Motors.—City of Houston, Tex., O. F. Holcombe, Mayor.—Receives bids April 13 for installation of two centrifugal pumps with motors at Scott St. water works; plans with City Engr.

Pumping Equipment.—Fresh Water Dist., care of Louis Hancock, Sec., Irving, Tex.—Wants bids on pumping equipment for water works; Koch & Fowler, Engrs., 606 Central Bank Bldg., Dallas.

Plates (Motor Vehicle Number).—C. E. Coyne, Sec. of State, Capitol Bldg., Pierre, S. Dakota.—Receives bids April 15 to furnish state of South Dakota with motor vehicle numbers plates for year 1928.

Power Plant.—City of Lakeland, Fla., Anton Schneider, Mgr.—Receives bids April 16 for additions to power plant; Scofield Engineering Co., Engrs., Commercial Trust Bldg., Phila., Pa.

Road.—Construction Quartermaster, Fort Monroe, Va. See Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La., will build 3 roads. See Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La., will build 2 roads. See Construction News—Road and Street Construction.

Road.—Buncombe County, Asheville, N. C. See Construction News—Road and Street Construction.

Road.—Board of Commrs., Cape Girardeau, Mo. See Construction News—Road and Street Construction.

Road.—State Highway Dept., East Point, Ga., will build 2 roads. See Construction News—Road and Street Construction.

Road.—Brewster County, Alpine, Tex. See Construction News—Road and Street Construction.

Road.—Robertson County, Franklin, Tex. See Construction News—Road and Street Construction.

Road.—Dept. of Highways and Public Works, Nashville, Tenn., will build 9 roads. See Construction News—Road and Street Construction.

Road.—State Highway Comm., Montgomery, Ala., will build 2 roads. See Construction News—Road and Street Construction.

Road.—State Roads Comm., 601 Garrett Bldg., Baltimore, Md., will build 3 roads. See Construction News—Road and Street Construction.

Road.—State Roads Comm., Baltimore, Md. See Construction News—Road and Street Construction.

Road.—State Highway Comm., Montgomery, Ala., will build 3 roads. See Construction News—Road and Street Construction.

Road.—Ouachita Parish, Monroe, La., will build 2 roads. See Construction News—Road and Street Construction.

Road.—Alamance County, Graham, N. C. See Construction News—Road and Street Construction.

Road.—City of Sulphur, Okla.—See Construction News—Road and Street Construction.

Road.—Hall County, Memphis, Tex.—See Construction News—Road and Street Construction.

Road Building Material.—State Highway Dept., East Point, Ga.—Receives bids April

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

24 to furnish 10,710 tons of slag, or 12,620 tons stone or gravel to build 5.076 mi. road in Coweta County; I. O. b. cars at Madras, McCollum and Palmetto; E. H. Davis, Div. Engr., Griffin, Ga.; W. R. Neel, State Highway Engr.

Roadster, etc.—City of Houston, Tex.—O. F. Holcombe, Mayor.—Receives bids April 13 to furnish one roadster and one five-passenger coupe sedan.

Sanitary and Storm Sewers.—City of Miami, Fla., H. E. Ross, Clk.—Receives bids April 14 for construction of storm and sanitary sewers in Dist. SR-103, SR-104 to 109, inclusive; SR-110 to SR-119, inclusive; SR-120, SR-121 and SR-122, SA-L-3.

Sewer System.—City of Tampa, Fla., W. Lesley Brown, Mgr.—Receives bids April 28 for sanitary sewer system; approximate quantities: Section No. 11—2251 ft. of 10-in., 2761 ft. of 12-in., 1982 ft. of 15-in., 1170 ft. of 18-in., 1274 ft. of 24-in., 410 ft. of 30-in., No. 1 vitrified sewer pipe; 29 plain manholes, 18 drop manholes.

Section No. 12—14,259 ft. of 8-in., 2321 ft. of 10-in., 100 ft. of 12-in., 100 ft. of 15-in., 4088 ft. of 18-in. No. 1 vitrified sewer pipe; 49 plain manholes, 25 drop manholes.

Section No. 13—27681 ft. of 8-in., 2012 ft. of 10-in., 5148 ft. of 12-in., 2307 ft. of 15-in. No. 1 vitrified sewer pipe; 60 plain manholes, 28 drop manholes.

Section No. 14—10,547 ft. of 8-in., 4825 ft. of 10-in., 2653 ft. of 12-in. No. 1 vitrified sewer pipe; 35 manholes, 14 drop manholes.

Section No. 15—4950 ft. of 8-in., 1828 ft. of 10-in. No. 1 vitrified sewer pipe; 10 plain manholes, 8 drop manholes; R. D. Martin, City Engr.

Scales.—See Vending Machines, etc.

Sewer.—City of Montgomery, Ala. See Construction News—Road and Street Construction.

Sewer.—City of Manatee, Fla. See Construction News—Road and Street Construction.

Sidewalk.—Town of Lawrenceville, Va.—See Construction News—Road and Street Construction.

Spark Plugs.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids April 13 to furnish 800 spark plugs, 1/4-in. "AC Titan" and 1200 spark plugs 3/8-in. regular; delivery Philadelphia, Pa. Sch. 540.

Stationery.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids April 21 to furnish stationery, delivery Philadelphia, Pa. Sch. 544.

Steel Barges, etc.—U. S. Engineer Office, Milwaukee, Wis.—Receives bids April 14 to construct steel side wheel tug; also on April 30 to construct steel barges.

Skidder and Loader.—J. M. Griffin Lumber Co., Holopaw, Fla.—Wants Clyde Universal skidder and loader; state condition and price.

Stokers (Mechanical).—Hackley Morrison Co. (Mchy. Dealer), 1708 Lewis St., Richmond, Va.—Wants two 600-h. p. mechanical stokers, suitable for water tube boilers.

Street Improvement.—City of Manatee, Fla. See Construction News—Road and Street Construction.

Street Improvement.—City of Bartow, Fla. See Construction News—Road and Street Construction.

Street Improvement.—City of Huntington, W. Va. See Construction News—Road and Street Construction.

Street Improvement.—City of Miami, Fla. See Construction News—Road and Street Construction.

Street Improvement.—City of Tampa, Fla. See Construction News—Road and Street Construction.

Street Improvement.—Harris County Houston, Tex.—See Construction News—Road and Street Construction.

Switchboard (Electric).—City of Houston, Tex.—O. F. Holcombe, Mayor.—Receives bids April 13 to furnish one electrical switchboard.

Tables (Massage).—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 13 for two massage tables, pine or poplar.

Terra Cotta.—Geo. W. Donaghey, New Donaghey Bldg., Little Rock, Ark.—Wants bids on terra cotta for 1,000,000 office building, 14 stories.

Test Glasses.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 11 for 250 test glasses, conical form; A. H. Thomas Co.'s Catalog No. 9438, or equal.

Tractors.—Travis County, Geo. S. Matthews, Judge, Austin, Tex.—Receiving bids

for three tractors, about 40-h. p., for use on highways; O. Leonard, Engr.

Turbine Alternator.—Leo. S. Weil, 640 S. Peters St., New Orleans, La.—Want one 750 kw., 220 volt, 3 phase, 60 cycle, mixed pressure turbine alternator, complete with exciter set and generator panel, one jet or barometric condenser to handle 28,000 lb. of steam per hour, with 85 degrees water, complete with pumps; one spray cooling system to use with above condenser; also one 1500 h.p. back pressure type open heater; give full specifications, price, age, location, condition, etc.

Twine.—See Miscellaneous Supplies.

Vending Machines.—W. E. Brewer, Jacksonville, Fla.—Wants to correspond with manufacturers of penny weighing scales and vending match machines.

Water Works Extension.—City of Manatee, Fla. See Road and Street Construction.

Water Heater and Purifier.—Hernedeen, Inc., R. G. Bergeman, Engr., Miami Beach, Fla.—Wants prices on water heater and purifier in sizes up to 10,000 gal. per hour, with chamber capacity up to 5000 gal. of water, open and closed types; cost per h. p.

Water Supply Improvements and Fire Station.—City of Carthage, N. C., R. L. Burns, Mayor.—Receives bids April 28 for brick fire station 32x62 ft.; alternate bids on following: 200,000 gal. reinforced concrete reservoir; steel stand pipe 16x100 ft., 19x100 ft., 21x100 ft.; The Carolina Engineering Co., 917 Johnston Bldg., Charlotte; G. H. Bishop, Const. Engr.

Water Work Improvements.—City of High Point, N. C., Jno. W. Hedrick, Mayor.—Receives bids April 28 for water works improvements as follows: Furnishing and delivering f.o.b. cars High Point, 4 motor-driven and 2 gasoline engine driven centrifugal pumping units, with starters and appurtenant apparatus; furnishing labor and materials and constructing additions to River pumping station, city pumping station and filter plant; remodeling filter piping, etc., in filter plant and installing controlling equipment, chemical laboratory equipment, filter sand and gravel; furnishing material and labor and constructing reinforced concrete coagulating basin; furnishing and installing piping, valves, fittings, etc.; Wm. C. Olsen, Const. Engr.

Woodworking Machinery.—High Point Furniture Co., High Point, N. C.—Wants one turning machine, one 10-in. moulder, one straight-line edger and ripping saw, 36-in. cabinet planer, one revolving glue clamp, one case clamp; all machines direct connected motor driven, 3 phase, 60 cycle, 220 volt.

Varnish Sprays.—High Point Furniture Co., High Point, N. C.—Wants 2 varnish sprays.

Financial News

New Financial Corporations

Ala., Abbeville—Bank of Abbeville, capital \$25,000, incorporated; R. E. Dunham, Pres.; A. M. Steagall, Cashier.

Ala., Birmingham—Iriquois Investment Co., incorporated; H. P. Hanna, J. C. B. Bldg.; John B. Ingram.

Ala., Birmingham—Jenkins Investment Co., capital \$10,000, incorporated; Raleigh M. Jenkins, Jr., 3501 Cliff Rd.; W. T. Hill.

Ala., Hurtsboro—Bank of Hurtsboro, capital \$40,000, incorporated; T. S. Davis, T. J. Taylor.

Ala., Mobile—State Insurance Co., Inc., incorporated; P. W. Sture, W. A. Roberts, 150 S. Monterey St.

Ala., Woodlawn St., Birmingham—Woodlawn Savings Bank of Woodlawn plans increasing capital, \$25,000 to \$50,000.

Ark., Rison—Farmers & Merchants Bank, capital \$30,000, organized; J. M. May, Pres.; Walter Thomason, Cashier.

Fla., DeLand—Guaranty Abstract & Title Co., Landis Bldg., West New York Ave., capital \$90,000, incorporated; Atty. Frank W. Pope, Pres., Daytona; Chas. M. Chapman, Sec. and Gen. Mgr.; will also establish office in Daytona.

Fla., Jacksonville—Bankers Financing Co., of Jacksonville, purchased controlling interest of Indian River State Bank; J. R. Anthony, Pres., Jacksonville.

Fla., Key West—First Title Guaranty & Abstract Co., organized; Clark D., Andrew R. Miller.

Fla., Miami—Deelis Investment Co., capital \$500,000, incorporated; M. C. Hardee, Pres.; M. S. Hardee, Sec., 1756 N. Bayshore Dr.

Fla., Miami—Miami Finance & Thrift Co., capital \$500,000, incorporated; R. G. Ward, Pres.; E. Lee Hughes, Sec.-Treas., 223 N. E. 27th St.

Fla., Miami—Tatums' Investors Corp., capital \$500,000, organized; B. B. and J. R. Tatums, 200 E. Flagler St.

Fla., Miami—Ingilis Investment Co., capital \$25,000, incorporated; E. A. Ingilis, Pres.; R. K. Ingilis, Sec.-Treas.

Fla., Miami—Lake Investment Co., capital \$50,000, incorporated; G. E. McCaskill, Pres., 601-04 Ralston Bldg., Hazel Sibthorpe, Sec.

Fla., Palatka—Palatka Abstract & Title Guaranty Co., capital \$50,000, incorporated; J. A. Lisenby, Pres.-Treas.; Elmer E. Sheridan, Sec.

Fla., St. Augustine—Citizens Finance Corp., capital \$50,000, incorporated; David R. Dunham, Pres.; Jefferson Theater Bldg.; R. B. Hunt, Sec.-Treas.

Fla., St. Petersburg—Peoples Bank & Trust Co., capital \$200,000, incorporated; A. T. Blocker, Pres.; Arthur B. Green, Sec.-Treas.

Fla., Tampa—Community Investment Co., capital \$25,000, incorporated; R. A. Wackerman, 610 Memorial Highway, Pres.; B. F. Borchardt, Sec.

Fla., West Palm Beach—Fiamba Investment Co., capital \$25,000, incorporated; John C. McNeil, Pres.; Albert Hopson, Sec.

Fla., Tampa—Osceola Investment Co., capital \$200,000, incorporated; H. H. Banard, Pres.; E. B. Blount, Sec.-Treas.

Fla., Tampa—Strate-Line Investment Co., capital \$30,000, incorporated; T. H. Abbey, Pres., Natl. City Bank Bldg.; F. H. Freeman, Sec.-Treas.

Ga., Atlanta—Unity Trust Co., capital \$250,000, incorporated; Otis Bass, Hass-Howell Bldg., Atlanta; C. M. Thorsen, New York.

La., New Orleans—H. H. Mazur & Co., capital \$10,000, incorporated; Harry Mazur, Pres., Roosevelt Hotel; Benj. Graver, Sec., 4729 Carondelet St.

Md., Baltimore—Atlantic Mortgage & Finance Co., 5 S. Hanover St., incorporated; Michael Miller, Julius Offit.

Md., Baltimore—Prudential Mortgage & Finance Corp., 75 Gunther Bldg., capital \$100,000, incorporated; John E. Popp, Walter S. Ritter.

Md., Baltimore—Solid Building & Loan Association, 110 E. Lexington St., capital \$150,000, incorporated; Louis Mayers, Henry I. Rosenberg.

Md., Baltimore—Tioga Building & Loan Assn. of Baltimore City, Inc., 506 St. Paul St., capital \$1,000,000, incorporated; John Thomas Baker, Edward L. Meise.

Md., Cumberland—The Boyd A. Reinhart Co., capital \$25,000, incorporated; Boyd A. Reinhart, Eugene F. Bareis.

Md., Towson—Summit Permanent Building & Loan Assn., capital \$100,000, incorporated; Thomas E. Erdman, Harry J. Holland, Harford Rd. and Club Hill.

Miss., Hattiesburg—Hattiesburg Building & Loan Assn., capital \$2,000,000, incorporated; Luther A. Smith, M. M. Simmons.

Miss., Sturgis—Citizens Bank, capital \$10,000, incorporated; R. L. Hannah, Sturgis; J. T. Thomas, Grenada.

Mo., Cardwell—Cardwell Agricultural Credit Corp., capital \$20,000, incorporated; J. M. Seaborn, T. H. Shipman.

Mo., Mercer—People's Bank of Mercer, capital \$20,000, incorporated; W. A. Pickett, Edward Goshen.

Mo., St. Louis—Easton Finance Corp., capital \$9750, incorporated; A. T. Latta, Pres.; C. Leonard Snell, Sec., 5246 Waterman St.

Mo., St. Louis—Hill & Harrison Investment Co., Boatmen's Bank Bldg., capital \$50,000, incorporated; Glenn C. Hill, Stuart E. Harrison.

Mo., St. Louis—Alcamillo Investment Co., 2925 S. Broadway, capital \$12,000, incorporated; Louis F. Yeckel, Kirkwood, Chas. Spraul, St. Louis.

Mo., St. Louis—Pioneer Engineering & Finance Corp., incorporated; Hymen Seltzer, 721 Interdrive, Elias F. E. Williams.

N. C., Greensboro—Cox-Trimble Co., incorporated; E. G. Cox, 231 1/2 S. Elm St., John W. Trimble.

N. C., Raleigh—Moore & Johnson Co., capital \$25,000, incorporated; Earl Johnson, Vick C. Moore, Commercial Bank Bldg.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Okla., Enid—Local Loan & Investment Co., incorporated; G. I. Matthews, E. L. Semke.

Okla., Madill—Marshall County Building & Loan Assn. increased capital, \$200,000 to \$300,000.

Okla., Chickasha—Chickasha Building & Loan Assn. increased capital, \$1,000,000 to \$2,000,000.

Okla., Elk City—Beckham County Building & Loan Assn. increased capital, \$350,000 to \$400,000.

Okla., Morris—Security State Bank, capital \$15,000, incorporated; R. Ward, H. L. Wood.

Okla., Oklahoma City—Dixie Finance Corp., capital \$50,000, incorporated; J. L. Francis, R. R. Wilson, 1201 W. 38th St.

Okla., Oklahoma City—Equity Loan Co., incorporated; E. M. Rubin, D. T. McConnell.

Okla., Packerstown—Stockyards Bank, capital \$25,000, incorporated; J. M. Herd, Pres.; Mrs. E. G. Moore, Cashier.

Okla., Pawhuska—Osage Security Co., capital \$50,000, incorporated; E. E. Grinstead, E. P. Scott.

Okla., Wapanucka—Wapanucka State Bank, capital \$15,000, incorporated; A. P. Harris, S. L. Morley.

S. C., Cowpens—Bank of Cowpens and Security Bank of Cowpens, merged as Cowpens Security Bank, capital \$50,000; J. W. Brown, Pres., Spartanburg.

S. C., Fairfax—National Security Bank of Fairfax, capital \$25,000, incorporated; B. F. Thomas, Pres.; W. R. Loadholt, Cashier.

S. C., Greenville—Carolina Loan & Trust Co., W. C. Beacham, Pres., plans increasing capital, \$500,000 to \$2,000,000.

Tenn., Chattanooga—Chattanooga Finance Corp., S. A. Strauss, Sec.-Treas. will increase capital, \$250,000 to \$300,000.

Tenn., Dayton—American Trust Co., capital \$25,000, incorporated; A. P. Haggard, A. B. Andrews.

Tenn., Knoxville—Commercial Bank & Trust Co., 315 Wall Ave., incorporated; J. W. Williams, Pres.; R. L. Huff, V.-P. and Treas.

Tenn., Nashville—Fourth and First Bank & Trust Co. and Springfield Bank, Springfield, consolidated; latter bank to be known as Springfield Bank Branch, Fourth and First Bank and Trust Co. with combined total resources of \$12,367,433.69; J. W. Brown, in charge.

Tenn., Nashville—Mortgage Loan & Trust Co., capital \$100,000, incorporated; R. W. Bratton, Pres.

Tex., Dallas—Hemos Investment Co., capital \$10,000, incorporated; Tom Semos.

Tex., Dallas—Republic Bank plans increasing capital, \$1,500,000 to \$2,000,000; W. O. Connor, Pres.

Tex., Grapevine—D. E. Box, Grapevine, interested in organizing Tarrant County National Bank, with \$50,000 capital; succeed Tarrant County State Bank.

Tex., Harrisburg—Harrisburg State Bank, capital \$50,000, incorporated; W. J. Stoner, Pres., Houston.

Tex., Houston—Sam Houston Trust Co., Walter Johnson, Sec.-Treas. and Gen. Mgr., plans increasing capital, \$100,000 to \$200,000.

Tex., Waco—Texas Fire Insurance Co. of Waco, capital \$100,000, incorporated; J. B. Earle, Pres., 8th floor Liberty Nat'l Bank Bldg.

New Securities

Ala., Birmingham—Jefferson County Board of Revenue, Capt. Lacey Edmundson, Pres., plans selling \$2,500,000 bonds.

Ala., Huntsville—School—City sold \$150,000 5% bonds to Caldwell & Co., Nashville at 98.02.*

Ala., Mobile—School—City Commrs. contemplate \$200,000 bond issue.

Ala., Selma—Paving—City, T. J. Rowell, Mayor, sold \$13,500 6% bonds to Ward, Stern & Co., First Nat'l Bank Bldg., Montgomery, at 1.02 and accrued interest.*

Ark., Little Rock—Street Improvement—City sold \$42,000 bonds to Bankers Trust Co., and M. W. Elkins at par.

Fla., Bartow—Municipal Improvement—Polk County contemplates \$150,000 bond election. Address County Commrs.

Fla., Bartow—Municipal Improvement—City voted \$311,000 bonds; \$41,000, sewers, \$100,000, municipal hospital, \$50,000 municipal golf course and park, \$120,000, water mains and extension. Address City Clk.*

Fla., Clearwater—Road and Bridge—Pinellas County sold \$75,000 Special Road and Bridge Dist. No. 9 bonds to Spitzer, Rorick & Co., Toledo.

Fla., Davenport—White Way—City voted \$10,000 bonds. Address City Clk.

Fla., Haines City—Street Improvement—City Commrs. Jess P. Ferrill, Clk., receives bids April 15 for \$30,000 6% bonds.

Fla., Lake Alfred—Street Paving—City, J. D. Miles, Mayor, contemplates \$300,000 bond election.

Fla., Miami—Municipal Improvement—Dade County Commrs. Geo. F. Holly, Clk., sold \$870,000 5% bonds to Robinson & Humphreys Co. of Atlanta, Ga., for \$917,512.*

Fla., Miami—School—Dade County, Board of Public Instruction, Chas. M. Fisher, Sec., will call election April 28 on \$3,800,000 Special Tax School Dist. No. 2 bonds.*

Fla., Miami—School—Dade County Board of Public Instruction, Chas. M. Fisher, Sec., will call election April 28 on \$75,000 5% Special Tax School Dist. No. 4 bonds; and \$500,000 for schools at Shadowlawn Homestead. etc.

Fla., Palmetto—Improvement—City sold \$50,000 bonds to A. P. Bell & Co., Toledo, at premium of \$3556.*

Fla., Palm Beach—Town Hall—Town voted \$75,000 bonds; L. Trevette Lockwood, Town Mgr.*

Fla., Sarasota—Electric—City votes May 7 on \$250,000 bonds. Address Mayor Bacon.

Fla., Tampa—Highway—Hillsborough County Board of Commrs. receives bids April 24 for \$157,000 5% bonds.

Fla., Tavares—General Obligation—Town, J. W. Hunter, Mayor, receives bids April 11 for \$12,000 6% \$1000 denom. bonds; W. B. Feagle, Clk.

Fla., Vero—Sewer—City, H. A. Redstone, Clk., sold \$107,500 6% bonds to Stranahan, Harris & Oates and associates, at \$110,000 and accrued interest.*

Ga., Atlanta—Street Paving—City sold \$70,000 4½% bonds to Trust Co. of Georgia, Atlanta, at \$80,172 and accrued interest.*

Ga., Lincolnton—Road—Lincoln County

contemplates bond election. Address County Commrs.

Ga., Talbotton—School—Board of Trustees Talbotton Consolidated School, will call election April 11 on \$30,000 bonds.

Ky., Louisville—Kentucky & Indiana Terminal R. R. Co., W. S. Campbell, Mgr. and Ch. Engr., Louisville, requested authority Interstate Commerce Comm. to issue \$500,000 bonds.

La., Pineville—Improvement—Town, David A. Christian, Sec., receives bids April 7 for \$25,000 6% \$500 denom. bonds.

Md., Cumberland—General Improvement—City plans selling \$100,000 bonds. Address Mayor Koons.

Miss., Bay St. Louis—Highway—Hancock County voted \$180,000 bonds. Address County Commrs.

Miss., Greenville—Road—Washington County Board of Suprvs., L. A. Hayes, Pres., contemplates bond election.

Miss., Jackson—Road—Hinds County Commrs. will sell \$200,000 bonds.

Mo., Hartville—Dam—City sold \$8500 bonds to H. C. Spears & Sons Co., Chicago.

Mo., Independence—Jackson County contemplates \$400,000 bond issue: \$150,000 county jail and farm, \$250,000 hospital.

N. C., Apex—Municipal Improvement—Board of Commrs., S. A. Branch, Town Clk., receives bids Apr. 11 for \$45,000 sewer and \$90,000 water bonds.

N. C., Beaufort—Road and Bridge—Carteret County sold \$75,000 5½% bonds to Ryan, Sutherland & Co., Toledo.

N. C., Bessemer City—School—Gaston County Commrs., Gastonia, will call election April 13 for \$50,000 Bessemer City Graded School Dist. bonds.

N. C., Catawba—Electric Light—Catawba County sold \$15,000 6% bonds to Stranahan, Harris & Oatis, Inc., Toledo, at par.*

N. C., Elkin—Water and Light—City, Alex. Chatham, Jr., Clk., receives bids Apr. 9 for \$70,000 6% \$1000 denom. bonds.

N. C., Gastonia—School—City voted \$200,000 bonds. Address City Clk.*

N. C., Goldsboro—School—Town voted \$325,000 bonds. Address Town Clk.*

N. C., Jacksonville—Road—Onslow County Commrs., J. E. Sanders, Clk., receives bids Apr. 6 for \$150,000 6% bonds.

N. C., Mount Airy—Town, A. V. West, Mayor, contemplates \$40,000 bond issue: \$25,000 street improvement, \$15,000 water and light.

N. C., Roxboro—School—City sold \$75,000 bonds to Drake, Jones & Co., Minneapolis, at premium of \$412.*

N. C., Salisbury—Municipal Improvement—Board of Aldermen plan selling \$600,000 bonds.

N. C., Tarboro—Road—Edgecombe County Commrs. contemplate \$200,000 short-term notes.

N. C., Wentworth—School—Rockingham County Commrs. contemplate \$1,250,000 bond issue.

Okla., Newkirk—Water Works—City voted \$115,000 bonds. Address City Clk.*

Okla., Tulsa—Street Improvement—City votes April 14 on \$500,000 bonds. Address the Mayor.

S. C., Charleston—Paving—City, W. S.

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In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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Smith, Treas., sold \$292,000 6% bonds to National City Co., New York at \$301,683.74.*

S. C. Mullins—Street Improvement—City votes this week on \$50,000 bonds. Address City Clk.

S. C., Spartanburg—School—County, J. B. Lancaster, County Supt. of Education, sold \$21,000 6% bonds to Montgomery Trust Co., Spartanburg, at \$1000 premium and accrued interest.

Tenn., Chattanooga—City, Richard Hardy, Mayor, receives bids Apr. 18 for \$500,000 suburban improvement and \$95,000 public school bonds, 4% \$1000 denom. bonds.

Tenn., Chattanooga—Improvement—City receives bids April 18 for \$280,000 bonds. Address City Clk.

Tenn., Dyersburg—Gymnasium—City contemplates \$25,000 bond issue. Address City Clk.

Tenn., Fayetteville—Water Extension—City, Hiram Higgins, Clk., sold \$80,000 5% bonds to Caldwell & Co., Nashville, at par, accrued interest, expenses and premium of \$1800.*

Tenn., Harriman—Refund—City sold \$97,000 5½% bonds to Otis & Co., Cleveland, at premium of \$973.50.

Tenn., Humboldt—Water and Light Plant—Board of Aldermen will call election April 22 on \$75,000 bonds.

Tenn., Knoxville—School—City may vote in May on \$2,250,000 bonds. Address Pres. Board of Trustees.

Tenn., Knoxville—Viaduct—City contemplates bond issue; A. D. Albright, Chmn. Viaduct Comm.

Tenn., Nashville—Water Works—City, C. H. McKay, Clk., sold \$500,000 6% bonds jointly, to Union & Planters Bank & Trust Co. of Memphis, and Eldridge & Co. of New York, at premium of \$5835.*

Tenn., Ripley—School—Election Comms. of Lauderdale County will call election Apr. 28 on \$100,000 bonds. Address County Comms.

Tenn., Trezevant—Water Works—City contemplates \$20,000 bond election. Address City Clk.

Tenn., St. Elmo—Municipal Improvement—City, W. B. Rollins, Mayor, contemplates \$60,000 bond issue: \$40,000 sewer and curbing extension, \$15,000 park, \$5000 municipal park equipment.

Tex., Bertram—School—Independent School Dist. voted \$60,000 bonds. Address Board of Education.

Tex., Brownsville—School—City votes May 2 on \$75,000 bonds; Thomas J. Yoe, Supt. Independent School Board.

Tex., Crystal City—School—City plans bond election. Address Board of Trustees.

Tex., Decatur—Road—Wise County contemplates \$1,000,000 bond issue. Address County Comms.

Tex., Galveston—Grading—City Comms. contemplates \$2,000,000 bond issue. Address City Clk.

Tex., Galveston—Incinerator—City votes May 12 on \$75,000 bonds; Anne C. Kelley, Secretary.

Tex., Giddings—Water, Sewer—City sold \$46,000 water and \$45,000 sewer bonds to J. T. Bowman at premium of \$6825.*

Tex., Groveton—Trinity County votes May 2 on \$1,500,000 bonds: \$1,061,000, road; \$439,000, refund; Fred J. Berry, County Judge.

Tex., Italy—School, Jail—Ellis County sold \$40,000 school and \$10,000 jail 5% bonds to Garrett & Co., Dallas.*

Tex., Italy—City Hall—City, R. G. Dooney, Mayor, contemplates bond election.

Tex., Post—Road—Garza County voted \$150,000 bonds; J. M. Boren, Judge.

Tex., Seagraves—School—City sold \$75,000 Independent School Dist. bonds to C. E. Dunn, Wichita, Kan.

Tex., Port Arthur—General Improvement—City sold \$1,030,500 bonds to Stranahan, Harris & Otis, Toledo, Ohio, at \$1,081,767, including premium and accrued interest.

Tex., Richmond—Road—Fort Bend County contemplates bond election. Address County Comms.

Tex., Waco—Road—McLennan County, Axtell Dist., defeated \$50,000 bond issue. Address County Judge.*

Tex., Wheeler—Courthouse—Wheeler County votes Apr. 27 on bonds; A. C. Wood, Judge.

Tex., Yorktown—Sewer—City votes Apr. 23 on \$50,000. Address The Mayor.

Va., Bedford—Hydro-Electric Plant—Bedford County votes April 11 on \$100,000 bonds. Address County Comms.

Va., Bland—Road—Bland County Board of Supvrs. contemplate bond election.

Va., Hopewell—City, D. L. Elder, Mayor, sold \$525,000 4% bonds to Walter Woody & Heimerdinger, Cincinnati, Ohio, at par, less \$7,500.

Va., Norfolk—Seaboard Air Line Ry Co., W. D. Faucette, Ch. Engr., Norfolk, requested authority Interstate Commerce Comsn., to authenticate and deliver \$2,750,000 refunding mortgage gold bonds and to pledge them under its first and consolidated mortgage gold bond issue, also to authenticate \$1,025,500 first and consolidated mortgage gold bonds, and to pledge them as collateral security for short term notes.

Va., Norfolk—Municipal Improvement City, B. Gray Tunstall, Treas., will receive bids probably in July on \$1,500,000 bonds.

Va., Vinton—General Improvement—Town, A. O. Stone, Mayor, and Finance Committee of Council receive bids Apr. 13 for \$100,000 5% \$1000 denom. bonds.

Va., Richmond—School—Henrico County, Varina Dist., votes this week on \$160,000 bonds; R. Cadter Scott, Judge.

W. Va., Charleston—Road—Kanawha County Court contemplates \$200,000 bond election.

W. Va., Fairmont—Road—Marion County, Grant Dist., contemplates \$124,927 bond election. Address County Comms.

W. Va., Keyser—School—City votes April 21 on \$50,000 bonds. Address Pres. Board of Trustees.

W. Va., Martinsburg—School—Martinsburg Independent School Dist., votes June 2 on bonds; L. W. Burns, Supt.

W. Va., Weston—Road—Lewis County sold \$365,000 5% Freeman's Creek Dist. bonds to Harris, Forbes & Co., New York City, at premium of \$4252.

Financial Notes

Md., Baltimore—Lauraville Permanent Building & Loan Assn. of Baltimore County has changed name to Glenmore Permanent Building & Loan Assn., Inc.

Trade Literature

Carbolineum Wood Preservative.

"Avenarius Carbolineum" is the striking name of the wood-preserving paint stain made by the Carbolineum Wood Preserving Co., 518-520 Prairie street, Milwaukee, Wis. This product, the trade-mark of which is an arrow, will, it is stated, absolutely preserve wood against rot and premature decay. In Bulletin 33 issued by the company is a picture of a fence post which was treated with this preservative and after use for 15 years it was removed from the ground and was found to be in perfect condition, as were all other posts in the fence that had received similar treatment. It is used on farm buildings, cottages, bungalows, boats, poultry houses, garages, etc., wherever a deep brown stain is desired. Many testimonials are shown. The product is also used as a disinfectant, a vermicide and a fungicide.

Westinghouse Book on Safety Switches

The Westinghouse Electric and Manufacturing Company's recent publication, F-4648, entitled "The ABC of Safety Switches," which contains information in regard to safety switches demanded by the specifications of the National Code and state and municipal ordinances, will be of interest to engineers, architects and operators in industrial plants. This booklet deals with the many uses of safety switches and the principles of their operation. Among the points discussed are why switch parts burn out, and the remedy; how to tell the proper type of switch for every job; the purpose and use of safety motor starters and how to tell the proper type for every job, and what thermal cutouts are and why they are used. There are sundry illustrations.

Statement of the ownership, management, circulation, etc., required by the Act of Congress of August 24, 1912, of MANUFACTURERS RECORD, published weekly at Baltimore, Md. for April 1, 1925.

State of Maryland,
City of Baltimore.

Before me, a Notary Public, in and for the State and City aforesaid, personally appeared Frank Gould, who, having been duly sworn according to law, deposes and says that he is the Business Manager of the MANUFACTURERS RECORD, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, circulation, etc., of the aforesaid publication for the date shown in the above caption, required by the act of August 24, 1912, embodied in Section 443, Postal Laws and Regulations, to wit:

1. That the names and addresses of the publisher, editor, managing editor and business managers are: Publisher, Manufacturers Record Publishing Co., Baltimore, Md.; editor, Richard H. Edmonds, Manufacturers Record, Baltimore, Md.; managing editor, none; business managers, Frank Gould and Victor H. Power, Manufacturers Record, Baltimore, Md.

2. That the owners are: Richard H. Edmonds, Manufacturers Record, Baltimore, Md.; Mrs. Addie L. Edmonds, Manufacturers Record, Baltimore, Md.; Miss Mary E. Edmonds, Manufacturers Record, Baltimore, Md.; Frank Gould, Manufacturers Record, Baltimore, Md.; I. S. Field, Manufacturers Record, Baltimore, Md.; C. H. Marchant, Manufacturers Record, Baltimore, Md.; V. H. Power, Manufacturers Record, Baltimore, Md.; J. Robert Gould, Manufacturers Record, Baltimore, Md.

3. That there are no outstanding bonds, mortgages or other liens against the property, except mortgage on building, held by Baltimore Commercial Bank.

4. That the two paragraphs next above, giving the names of the owners, stockholders and security-holders, if any, contain not only the list of stockholders and security-holders as they appear upon the books of the company, but also, in cases where the stockholder or security-holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security-holders who do not appear upon the books of the company as trustees hold stock and securities in a capacity other than that of a bona-fide owner, and that any affiant has no reason to believe that any other person, association or corporation has any interest, direct or indirect, in the said stock, bonds or other securities than as so stated by him.

FRANK GOULD,

Vice-President.

Sworn to and subscribed before me this 28th day of March, 1925.

EDWIN T. SICKEL,

Notary Public.

(My commission expires May 2, 1927.)

Buffalo Forge "Breeze-Fin" Heaters.

A finely illustrated bulletin in two colors has been issued by the Buffalo Forge Co., Buffalo, N. Y., telling all about their line of Breeze-Fin Heaters which, it is stated, "will make it hot for you." These heaters are portable and they can be readily placed where required to give heat in industrial establishments, etc. It is claimed that every bit of steam is utilized and the thin, copper-wound tubes give off heat rapidly, so that a building is heated quickly and economically. Two men can easily carry one of these heaters about, yet it is substantial, strongly constructed and lasting. Other recent publications of the company relate to their forges, power drills, etc.

Atlas Truck Body Price List.

Price List No. 4 of the Atlas All Steel Truck Bodies has been issued by the builders, McNamara Brothers Co., Westport, Baltimore, Md. It contains illustrations of the truck bodies and also a list giving the weights per cubic yard of many materials and products commonly transported in trucks. There are several sizes and styles of these bodies for different purposes.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Two Bay City Dredge Works Bulletins.

Two new bulletins have been issued by the Bay City Dredge Works, Bay City, Mich., describing and illustrating the Bay City Model 16-B convertible crane excavator. Bulletin No. 20 illustrates the use of this machine with combination crane and trench attachment on a difficult piece of sewer construction in Brooklyn, N. Y., and Bulletin No. 21 covers the same machine with its different buckets, including skimmer, trencher, shovel and clamshell.

Pittsburgh Laboratory Tests Foundry Sands.

"Better Foundry Sands" is the caption of Bulletin 35 issued by the Pittsburgh Testing Laboratory, inspecting engineers and chemists, Pittsburgh, Pa. It says that foundry sands of uncertain quality are responsible for many of the present-day foundry losses, and the American Foundrymen's Association has tentatively adopted a standard method of testing foundry sands with the object of improving cast conditions and cutting down losses. The Laboratory has installed the complete apparatus recommended by the Association in this tentative specification.

Oklahoma Gas & Electric's Big Work.

A new illustrated booklet has been issued descriptive of the business and the properties of the Oklahoma Gas & Electric Co., Oklahoma City, Okla. It contains not only the latest authentic statistics about the company, but it includes valuable information concerning the remarkable development throughout the state of Oklahoma and also about its abundant resources. A two-page map shows the territory served by the company all the way from Fort Smith to Enid and El Reno, including Muskogee, Tulsa, Sapulpa, Drumright, Shawnee and other points.

Osgood Excavating Equipment.

Bulletins 250, 251 and 253 have been published by the Osgood Company, Marion, Ohio, concerning their various types of power shovels. The first of these issues illustrates and describes revolving and railroad shovels; the second shows Osgood shovels engaged in the construction of better roads and streets, and the third deals in a general way with all of the excavating equipment made by the company. There are gasoline, Diesel and electric shovels, draglines, clamshells and cranes, with continuous tread trucks. The bulletins are finely and profusely illustrated and contain full particulars about the different machines.

Adamson Locomotive Bulletin.

A bulletin issued by the Adamson Motor Co., Birmingham, Ala., gives a number of interesting and important facts, with pictures, concerning the Adamson locomotive or locomotive attachment, which is built on the Fordson tractor. An illustration on the first page shows one of these locomotives operating at the Andres Stone & Marble Company's quarries, hauling a block of stone 12 feet long, 6 feet wide and 3 feet deep, weighing 43,200 pounds, the load being pulled up a 4 per cent grade.

Bulletin on Horton Gas Holders.

The Chicago Bridge & Iron Works have issued an attractive and comprehensive bulletin describing and picturing some recent installations of Horton gas holders. It also contains what is described as "the first information published on the welding of gas holder crowns and bottoms." Copies of the bulletin, which is finely printed and is exceedingly interesting, may be obtained from the offices at 2011 Old Colony Building, Chicago, Ill.

is in a very strong position for business. E. H. Birney, who has been president and general manager of the Peerless Drawn Steel Co., is now vice-president in charge of operations of the Union Drawn Steel Co. There are no other changes in the official personnel of the latter, L. R. Davidson being chairman; E. S. Hoopes, president; George B. Mitchell, vice-president in charge of sales; Herbert May, treasurer; E. C. Rebeske, secretary.

"Look Under Your Roads."

One of the most important particulars of road construction is drainage. If it be lacking even the best pavement may fail, but, if properly drained, even the poorest pavement will be much improved. The slogan "Look Under Your Roads," which was chosen by the Armco Culvert & Flume Manufacturers' Association, Middletown, Ohio, about 18 months ago, and which has since been adopted by other organizations aiming to obtain better highways, embodies wise counsel which everyone interested is encouraged to heed. Research organizations, inspired by the necessity of safeguarding the vast investment of public funds in our roads, are now giving more careful study to subsoil and drainage conditions, and this must result in lasting benefit to the highways.

Detroit Oak Belting Co. Control.

Albert S. Keen has bought the stock interest of Frank H. Croul, John T. Nichols, Jos. H. Schenck and others in the Detroit Oak Belting Co. of Detroit, Mich., the entire deal being on a cash basis and involving about \$250,000. The new officers of the company are Albert S. Keen, president; Williston A. Keen, vice-president; Edwin A. Ludden, secretary and treasurer; F. L. Kroha, assistant secretary and treasurer, the other directors being J. S. Keen, E. L. March and Chas. Rose. Jos. S. Keen is one of the original incorporators of the company and is a large stockholder in it. He was active in its affairs as secretary and treasurer from its incorporation in 1893 until six years ago. Albert S. Keen has also held a substantial interest and was active as assistant secretary and treasurer for about fifteen years. Mr. Ludden has been with it for 30 years, Mr. Rose for 25 years and Mr. March for seven years. W. A. Keen is president and F. L. Kroha secretary and treasurer of the Metalwood Manufacturing Co., manufacturers of hydraulic machinery, A. S. Keen being the vice-president.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Ice Plant to be Sold at Key West.

Announcement is made elsewhere in this issue that Shirley C. Bott, trustee in bankruptcy of the Consumers Ice and Cold Storage Co., Key West, Fla., will until June 1 receive offers to purchase the entire plant of that company situated at Key West, including 250 feet of waterfront property, buildings, ice-making machinery, etc., etc. Further particulars will be found in the advertisement.

Machine Tool Equipment to be Sold.

Elsewhere in this issue announcement is made of the absolute liquidation sale by auction on April 28, 29 and 30 of the entire equipment of the Garvin Machine Tool Co., Spring and Varick streets, New York, which will take place on those days upon the premises. Altogether there are 900 machine tools to be thus disposed of, including about 400 new Garvin tools of various kinds. Repair rights, good will, raw material, etc., are also to be sold. Samuel T. Freeman & Co. of Philadelphia and Boston are the auctioneers. Further particulars will be found in the advertisement.

Egyptian Iron Works Escaped the Tornado.

The Egyptian Iron Works, Murphysboro, Ill., report that they were very fortunate when the tornado swept through that region on March 18. Their plant was just outside of the path of the whirlwind and was consequently only slightly damaged by the storm. None of the members of the firm were in-

jured, neither did any of the employees suffer injury. The works are therefore continuing without interruption the manufacture and prompt shipment of bronze and cast-iron name plates and all classes of road, street and other municipal castings.

Whitman, Requardt & Smith, Engineers.

Norton Bird and Whitman, engineers, have sent out cards announcing a change in the firm name of the Baltimore office to Whitman, Requardt & Smith, engineers, with offices at 18 East Lexington street, Baltimore, Md. The personnel of the Baltimore office consists of Ezra B. Whitman, Gustav J. Requardt, Benjamin L. Smith, A. E. Falkenberg and T. W. Hacker. William J. Norton will maintain the office of Norton Bird and Whitman at 588 Broad street, Newark, N. J.

Union Drawn Steel Gets Other Plants.

The Union Drawn Steel Co. of Beaver Falls, Pa., has acquired the Peerless Drawn Steel Co. of Massillon, Ohio, and also the Standard Gauge Steel Co. of Beaver Falls, according to a recent announcement. Although control of the last named company has been with the same interests as that of the Union Drawn Steel Co., it has been separately operated. Moreover, the same interests took over several months ago the Frasse Steel Works, Inc., of Hartford, Conn., so that with other plants previously owned at Gary, Ind., and Hamilton, Ont., Canada, as well as at Beaver Falls, it now has seven industrial plants and

Only Four Recognized Varieties of Vitrified Paving Brick.

A reduction in the number of recognized types and sizes of vitrified paving brick from a total of 66 to only 4 is the simplification record of the paving brick industry in the short space of four years, according to an announcement just made by the Permanent Committee on Simplification of Varieties and Standards of Vitrified Paving Brick of the United States Department of Commerce. The last step in this reduction was taken by the committee on March 20 at Washington, when one of the then five remaining types and sizes was eliminated. The four types and sizes now recognized are thus described: Plain Wire-Cut Brick (vertical fiber lugless), 3x4x8½, and 3½x4x8½. Wire-Cut Lug Brick (Dunn), 4x3½x8½. Repressed Lug Brick, 4x3½x8½ inches. Out of the total of shipments made in 1924 there was 82.1 per cent in the four sizes and types now recognized. The most marked growth of any special variety, other than the recognized varieties, was in the case of 2½x4x8½ vertical fiber (plain wire-cut) brick. Reports from manufacturers indicated a decided trend toward a thinner brick for streets and highways having light or medium traffic.

Gulf States Cement Plant Enlarged.

The Gulf States Portland Cement Company, Demopolis, Ala., has just completed the installation of new 125-foot kiln and an additional kiln will also be installed immediately, the two of them when in operation increasing the output of the plant over 1200 barrels per day. This enlargement of manufacturing facilities has been brought about by the steady increase in the demand for the "Warrior" brand of portland cement made by the company, which has been operating continuously for many years with increasing popularity of its product. During the past year sales and shipments showed an increase of more than 18 per cent over previous years and so far this year the plant has operated on full time, the business being in excess of that for the months of January and February in any previous year. The company was a pioneer in the cement industry in Alabama and its brand is widely and favorably known.

General Electric Company's New Products.

After several years of development and trial the General Electric Co., Schenectady, N. Y., is now marketing a line of automatic arc-welding equipments. They are sold either as complete units or as separate parts, and they have been especially designed for quick, efficient and economical welding where quantity production is a factor. Heretofore it has been customary to supply only the separate parts. The new outfit is expected to find its principal application in the construction of tanks, boilers, cans, axle housings and pipe; also for repairing undercut shafts or axles and building up sharp flanges on car wheels. This company has also brought out a new line of disconnecting switches known as Type LG-17, in which the cantilever strength of the insulator unit has been greatly increased by a double crimped cap and the addition of a pin cast integral with the lower fitting. There are also several other desirable features.

Erie City Iron Works Changes.

Thomas E. Durban rejoined the Erie City Iron Works of Erie, Pa., recently to direct its sales and also act as an advisory engineer. In 1917 he resigned as general manager to become a major in the Ordnance Department, United States Army. After the war he was commissioned a lieutenant-colonel in the Reserve Corps and has been doing consulting work. He is widely known in the power-plant field and also among mechanical engineers for his constructive activities. It is also important to note that at the recent annual meeting of the Erie Works Hays H. Clemens was elected president to succeed Edward C. Moore, who is now vice-president and treasurer. L. V. Reese, general manager, was elected secretary. Mr. Clemens was treasurer of the Hays Manufacturing Co. Other members of the board of directors are A. R. Horr and Ely Griswold.

Buffalo Bolt Company's Expansion.

The Buffalo Bolt Company, North Tonawanda, N. Y., manufacturers of bolts, nuts, wire and bar material, have just completed an addition to their factory buildings to take care of the threading and milling of all jobbing orders. The new addition is of brick and wood construction and measures 80 by 75 feet. It is completely equipped with special machines to facilitate production of this type of work. It is also important to note that Ralph Plumb, president of the company, heads a committee that has been appointed by manufacturers of bolts and nuts to make recommendations for reducing the great variety of packing methods, this in co-operation with the Department of Commerce.

Contracts to D. P. Robinson & Co.

The Clinchfield Railroad Co. has awarded a contract to Dwight P. Robinson & Co., Inc., of New York, for the design and construction of extensions to their shops at Erwin, Tenn. These extensions will include a smith shop, coach, carpenter and paint shop, steel-car repair shop and other facilities. The Imperial Sugar Co. has also given a contract to these engineers and constructors for the design and construction of a fireproof filter house at their refinery, Sugarland, Tex.

"Mastertex" a New Waterproofing Paint.

A new type of waterproofing paint that can be applied directly, it is stated, to a wet, dripping wall has been developed and its manufacturers, the Master Builders Company of Cleveland, Ohio, with factories in that city and also in Irvington, N. J., and Granville, N. Y., say of it: "Mastertex is a fine, dry powder which, when mixed with water, forms a paint that both waterproofs and decorates concrete, stucco and other exposed surfaces and keeps them dry and attractive indefinitely. Its colors are permanent and its indissoluble structure unites with the concrete, brick or stone and becomes a permanent part of the wall. It is a permanent protection against seepage of moisture, even where it is under some pressure, and is a sure remedy for many conditions where other types of waterproofing media fail." It is further claimed that moist, dripping surfaces are ideal for its application.

Carborundum New Office Building.

The Carborundum Company, Niagara Falls, N. Y., have just completed and occupied their new office building, which cost with equipment about \$300,000. All of the stairways and the flooring in the lobby are made of the Carborundum Anti-Slip treads and tile. The building, which is 200 feet long and 62 feet wide, with three stories and basement, is built of face brick, with cut-stone trim, and is a handsome edifice. It is complete to the latest modern office device and it has in addition thereto a radio-receiving station, a lecture room with motion-picture equipment and a cafeteria. The interior is of reinforced concrete, with flat plastered ceilings. L. J. Call, construction engineer of the company, supervised its construction. The color scheme within is in pleasing shades with decorative, indirect lighting fixtures. The wood trim is of birch, finished in dull mahogany shade. A complete description, with illustrations, is given in a monthly publication issued by the company.

Columbus, Ga., Plans Tax Exemption Period.

J. Ralston Cargill, president and traffic manager of the Columbus (Ga.) Chamber of Commerce, writes the MANUFACTURERS RECORDS "It will be of interest to you to know that Columbus has made its first move toward granting exemption from taxation to new industries for a period of five years. We are very much in earnest here in our determination to bring new industries to Columbus and we expect to utilize the opportunity offered by the Southern Exposition to the fullest extent." Concerning this movement the Columbus Enquirer-Sun says in an editorial: "City and county commissioners have agreed to order an election, which will probably be held early in May, in order that citizens of Columbus may decide whether or not new enterprises shall be exempt from county and city taxation for a period of five years. * * * And naturally this exemption will go a long way toward paying the preliminary costs of establishing the plants. And, while nothing will be lost by either city or county during these five years of taxation exemption, much will be gained."

Barber Asphalt Base for Stucco.

Everyone concerned in building construction will be interested in the news that the Barber Asphalt Company, Philadelphia, Pa., has developed a stucco base made of high-grade all-rag felt, thoroughly saturated and then coated with asphalt. A coating of crushed Pearspar or stone chips is then imbedded in the upper surface of the felt under pressure and while the asphalt is still hot. This forms a key or anchor for the stucco and the support of the latter does not depend upon the cohesion of the stucco and the Pearspar, but it is mechanically supported by the stone pieces protruding from the felt. This "Gemasco" stucco base is furnished in rolls of 106 1/4 square feet, sufficient to cover 100 square feet of surface, with enough galvanized nails for nailing to the sheathing boards. The manufacturers claim a number of advantages for it.

Westinghouse Heaters Dry Out Mine Motors.

High water in the Lackawanna Valley recently flooded a mine, completely submerging five 1000 horsepower motors, each driving a 5000-gallon pump at 550 feet head. Five days later, when the pump room could again be entered, the machinery was covered with heavy slime, grit and dirt. First the motors were washed off, then the bearings and windings were cleaned. Next, each motor was surrounded with Westinghouse electric space heaters and the temperature was gradually raised to the maximum practical heat, and this was maintained for about 25 days, at the end of the period the motors being put back into service. They have continued to run successfully ever since. But for the electric heaters the motors would have had to be taken up the shaft to the surface of the ground to be dried out at great trouble and expense.

Acme Brick Company at Memphis.

The Acme Brick Company of Tennessee, with offices at Memphis (sometimes called the Memphis Brick Company) is a subsidiary of the Acme Brick Company of Texas at Fort Worth, and was formed to distribute the products of the parent company, but in addition to this work it will also market the products of L. L. Stephenson, Birmingham, Ala., and of several other southeastern and Indiana, Illinois and Ohio manufacturers. The Acme Brick Company of Texas operates six plants, having an annual capacity of over 100,000,000 face brick. They are situated at Bennetts and Denton, Tex.; Perla and Fort Smith, Ark.; Oklahoma City and Cleveland, Okla.

Ophuls & Hill Contract in Cuba.

Ophuls & Hill, Inc., engineers, 112-114 West 42nd street, New York, have been commissioned to complete the second half (300 tons) of a 600-ton ice-making plant for the Nueva Fabrica de Hielo, Havana, Cuba. This new work, it is stated, will consist of a 300-ton ice-making plant, a 2500 kw. turbo-generator, two additional 600-horsepower boilers, a 450-ton high-speed ammonia compressor and 800-horsepower synchronous motor, a 5000-gallon circulating pump and motor, together with wiring, auxiliary motors, etc.

Construction Company Changes Name.

The R. & P. Switch Track Construction Company has changed its name to the R. & P. Construction Company, and is now doing general railroad contracting. The offices of the company are in the Board of Trade Building, New Orleans, La., and Keystone Building, Houston, Tex. H. E. Roberts is president and manager and L. J. Roberts is vice-president. C. M. Duvic is secretary and treasurer.

Banker Frame Makes Reply to Sir George Paish.

Waukesha, Wis.

Editor Manufacturers Record:

In response to your request, permit me to briefly diagnose the address in Milwaukee last month entitled "Can America Maintain Her Position as World Banker and Trader?" by Sir George Paish, eminent British economist of London.

Sir George frankly conceded that the United States, largely as a result of the World War, had forged to the front as the world's banker, but doubted our ability to maintain world supremacy in trade unless:

First—That the superabundance of gold held in the United States should be loaned to the warring nations very liberally.

Second—That the United States practically adopt free trade, as the British Isles have done, as a dominating factor to insure success.

Without going into other details of his logic, which captivated many superficial hearers who cannot be expected to grasp the underlying principles of banking, credit, inflation, and especially of that never-ending controversy on "free trade," may I briefly say:

As to the first point raised above, we must fairly concede that if world trade and commerce are to revive more rapidly abroad we must loan liberally of our gold hoards to enable solvent nations to stabilize their progress. But undoubted integrity, the cutting down to fairly normal of the I. O. U.'s which are the products of the printing press, and which are not money, to the point where the world's confidence is restored must prevail. The borrowing nations must abolish the dole system, which but breeds poverty; they must show by their works that income exceeds outgo, and that the people are endeavoring to live by work and not by their wits or warfare.

Then, and not till then, can the nations consistently plead for our aid.

As to point number two, the picture beautifully painted of the supremacy of British world trade because of free trade may apply with material force in the British Isles, but what of the dependencies, and what would free trade do to the United States?

Is it not a potent fact that under "free trade" the British Isles, too small to produce necessities, get free raw material from their dependencies, including as far as possible the rest of the world, carrying the same in their home-owned vessels, thus taking a shaving for service performed?

Do not the British, through their smokestacks, produce and sell to the world their needs, making a shaving number two?

Do not British ships distribute these needs to her dependencies and to other countries, thus carving out shaving number three?

Do not her monopolistic banks, financed largely through her cream-skimming branch bank systems, glean shaving number four in her exploiting of the world's progress?

A beautiful and enticing picture for the British Isles, but what of the United States?

Unlike Britain, which cannot feed or clothe her people in her limited domain, the United States has the soil, the climate, the human energy, the raw material, the industries—built largely since our Civil War through the benign influence of a protective tariff—the accumulated capital through generous production of the world's wants, etc., until today our labor is better paid, better housed, better clothed and better fed than any of the nations of earth on record, and no nation exceeds the United States in labor-saving machinery and general prosperity.

As to the logic for or against "free trade," permit but one illustration from a reply to the question by that master of sound logic, Abraham Lincoln. In reference thereto he in

substance said: "If we buy steel rails in Britain at \$28 per ton, we part with \$28 in gold and have the steel rails; but if we buy the rails in the United States at \$40 per ton, we have the rails and our labor has the \$40 in gold."

But enough.

The true answer to Sir George Paish seems to be, if we were of the British Isles, perhaps in our selfish desire to exploit the world we might vote for "free trade." Being American, we feel resigned to a sufficient tariff to keep labor employed and the wheels of commerce moving, with a confident feeling that if, under our republican form of government, the interest of the masses and not the monopolistic classes prevail, the United States will continue to "maintain her position as world banker and trader."

With, say, a million and a quarter men out of employment in Britain and the dole system sapping the very life of the Isles, and with the United States free from these destructive troubles, it would seem that experience proves we ought to be thankful we live under the Stars and Stripes.

A. J. FRAME,

Chairman Waukesha National Bank.

Would Assist Farmers to Own the Land.

Through a bill introduced in the South Carolina Legislature, the Ridgeway (S. C.) Chamber of Commerce would be empowered to act as a body corporate, with the right to hold property and, specifically, to acquire title to and rights in lands, by gift, purchase or in trust, in Fairfield county for the following purposes:

"To provide rural homes for qualified farming folk who desire to live upon and own their land as homes of their own; to promote closer agricultural community settlements; to assist deserving and qualified farmers to obtain, by purchase in fee, their own homes of small improved farms, and to demonstrate the practicability of adequate capital under business methods, in co-operation with land bank and joint stock land bank systems, and in subdividing and preparing agricultural land suitable for settlement to make the same capable of remunerative returns."

As explained by Secretary R. A. Mears of the Ridgeway Chamber, many people of Fairfield county are leaving rural communities for places in textile establishments and in other industries, and the Chamber desires "to form a state alliance to place a new sort of population on the fine, but now vacant, farm lands, and to attract a quality of folk who are willing to be, and will be, trained to know how to labor and to live on these farms."

A Much Appreciated Commendation.

Columbus, Ohio.

Editor Manufacturers Record:

Nothing affords me any greater pleasure than to enclose the money paying for a two years' subscription to your most valuable paper and the one thing that I look forward to each week is the coming of the MANUFACTURERS RECORD.

I am also enclosing an amount to reimburse you for the wonderful work called "The South's Development." While you most graciously mailed me a copy as a compliment for being one of your regular subscribers, I couldn't think for a minute of receiving a work as valuable as this without showing you just how I appreciate it; great credit is due you and the men who assisted you in compiling such a book of information, and I am putting it very mildly when I say that every home in America should have a copy of the work.

1386 East Main street.

HARRY B. REDDING.

Concrete Roads to Cost \$450,000.

Dayton, Texas.—Liberty county plans to build 16.5 miles of concrete road at an estimated cost of \$450,000, for which bids will be received about May 1. The roads will be 18 feet wide, construction to be in charge of W. C. Youngs, Dayton, county engineer, from whom plans and specifications may be obtained. C. R. Wilson is county judge.

Scrappers!.....

If you are sick and tired of timid truck tires that delay and dally at every suggestion of a bad road or heavy load, you need Kelly Kats—and need them badly.

They're scrappers, these Kelly Kats. They do battle without chains. They sink their toothlike grip into mud. They crunch undaunted through slush or sand or over wet pavement.

And all the while, those characteristic side-vents which you see on the Kelly are shielding your truck and especially its engine from bumps and jars. These vents double the cushioning power of Kelly Kats.

It is due to such performance for over seven years that so many truck owners have scrapped ordinary solid truck tires for these scrappers, until today more Kelly Kats are used than any other truck tire made.

There are no Caterpillar tires but Kelly Kats

KELLY-SPRINGFIELD TIRE CO.
250 West 57th Street, New York



Kelly-Caterpillar Tires are scrappers on all kinds of trucks in any kind of service. That is why they are so widely used by truck owners in every line of industry.

Louisiana Southern Booklet.

A booklet issued by the Louisiana Southern Railway, otherwise called "The Fleur-de-lis Line," presents attractively, entertainingly and instructively the advantages of the road and of the territory which it serves in Orleans, St. Bernard and Plaquemines parishes of Louisiana. The line traverses rich lands devoted to truck gardening, truck growing, rice growing, pecan culture, grazing, etc., besides other tracts already occupied by industrial plants, with ample room and accommodations for more industries. Cheap lands, low taxes, mild climate, deep water for ocean and river steamers, railroad connections with all points are some of the advantages enumerated for manufacturing establishments, while vegetable growers and others engaged in farming pursuits are told of the rich soil, on which two or three crops a year may be grown and gathered, with the refrigerator-car service to Northern and Eastern markets. The executive offices of the company are at 1103 Carondelet Building, New Orleans. Henry S. Fleming is president.

Cotton Receipts and Shipments—Nearly 50 Per Cent Increase in Exports.

Cotton exports for the week of March 28-April 3 amounted to 185,298 bales, as compared with 89,082 last week and 76,260 bales for the corresponding week last year. Exports from August 1 to April 3 amounted to 7,063,875 bales, as compared with 4,717,475 bales last year, or an increase of nearly 50 per cent.

COTTON MOVEMENT FROM AUGUST 1, 1924, TO APRIL 3, 1925, WITH COMPARISONS.

	1925 Bales	1924 Bales
Port receipts	8,495,122	5,963,835
Port stocks	982,881	584,153
Interior receipts	9,704,572	6,858,339
Interior stocks	753,817	586,349
Into sight	13,518,611	10,220,651
Northern spinners' takings	1,617,627	1,549,486
Southern spinners' takings	3,387,650	3,203,539
World's visible supply of American cotton	3,564,098	2,211,502

Cigarette Smoking Grows in China.

The development of cigarette smoking in China exemplifies the possible effects of systematic advertising, merchandising and distribution in developing sales abroad, according to the Department of Commerce. In 1910 the Chinese consumed imported cigarettes from all countries to the number of 3,723,545,000. This total increased steadily until 1923, the latest year for which statistics are available, when imports of cigarettes totaled 10,116,893,000, and reflected an increase in consumption of about 172 per cent. Most gratifying to the American trade has been the substitution of the United States for the United Kingdom as the chief source of supply since

1917. Prior to 1917 the United Kingdom had furnished from one-half to two-thirds of China's cigarette imports, while the United States contributed less than one-eighth. Of the 10,000,000,000 cigarettes imported in 1923, 8,000,000,000 came from the United States. Cigarette consumption in China has been conservatively estimated to be about 40,000,000,000 per year, compared with about 60,000,000,000 in the United States.

Imports of leaf tobacco, which, according to the Chinese Maritime Customs, amounted to about 14,000,000 pounds in 1910, increased to approximately 20,000,000 pounds in 1916, and reached 42,000,000 pounds in 1923. Imported leaf tobacco is used almost entirely in the manufacture of cigarettes.

Two Handsome Southern Booklets.

A brilliantly and beautifully colored booklet, one that is especially timely because of the coming of spring, is that just issued by the Southern Railway Co., containing half a dozen handsome pictures of the richly blooming magnolia gardens near Charleston, S. C. These famous gardens are beside the Ashley River, 12 miles from the city and during March and early April their 24 acres are ablaze with hues of striking beauty. Copies of the booklet may be obtained from W. H. Tayloe, passenger traffic manager of the company, Washington, D. C., or from the company's agencies, as well as another impressive publication entitled, "Progressive Atlanta," which sets forth by means of numerous photographic reproductions a number of the newest hotels, the important business sections with tall skyscrapers and other buildings, the country clubs and their golf courses, etc., the parks, the Stone Mountain Confederate Memorial, and some of the handsome homes in the capital of Georgia, the whole being accompanied by data of great interest.

Electrification Contract Let.

The Augusta-Aiken Railway & Electric Co., Augusta, Ga., has engaged the J. G. White Engineering Corporation of New York to design and construct an outside sub-station at Stevens Creek, S. C.; also work covering alterations and additions to the Augusta sub-station and various other construction, including additions and alterations to crossing towers and poles and telephone systems. This work, together with an extension to the power house now being constructed by the J. G. White Engineering Corporation, will, upon completion, enable the Augusta-Aiken Railway & Electric Co. to handle additional load and meet the growth of the community.

Low bids for construction of approximately 16 miles of roads in Harrison county, West Virginia, total nearly \$200,000. G. L. Coyle, Clarksburg, is county engineer.

Black and Galvanized SHEETS TIN AND TERNE PLATES

We manufacture SHEET AND TIN MILL PRODUCTS for all purposes—American Bessemer, and American Open Hearth Steel Sheets, Keystone Copper Steel rust-resisting Sheets, Apollo Galvanized Sheets, Formed Roofing and Siding Products, Culvert and Flume Stock, Sheets for Special Purposes, Roofing Tin Plates, Bright Tin Plate, Black Plate, Etc.

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THE BONBRIGHT PRIZE

and THE AWARD of

The American Superpower Corporation



THESE prizes, amounting to a total of \$20,000, are to be awarded for the best contemporary reviews and forecasts of the electric light and power industry, to be written in the form of articles summarizing the progress of the decade 1920-1930, and dated as of January 1, 1930. The articles must be submitted on or before May 18, 1925.

THE BONBRIGHT PRIZE

(To be presented June, 1925)

Twenty-three awards to be divided as follows:

First Prize	\$5000
Second Prize	1000
Third Prize	500
Ten Prizes, each	250
Ten Prizes, each	100

The American Superpower Corp. Award

(To be presented January, 1930)

One award of:

\$10,000 for the article which, reviewed again in 1930, shall appear to have most nearly approximated the facts as they eventuate.

The Judges of the competition will be the Directors of The American Superpower Corporation.

The competition is open to every one, with the sole exception of the Board of Judges. A "Data Book" of basic electric power and light statistics, as generally accepted in the industry, is available for contestants free upon request. For this and all other information relative to the competition, write to Van H. Cartmell, Secretary, c/o Bonbright & Co., Inc., 25 Nassau Street, New York City.

Morris Plan Banks Financing Time Sales.

Morris Plan banks, although primarily organized to extend credit to individual borrowers with personal endorsements as collateral, have extended this same principle to the purchase of all articles of commerce where the purchase price is sufficiently large to require that payment be extended over several months. The Morris Plan Bank of Richmond, the regional bank for the Fifth Federal Reserve District, covering Maryland, Virginia, West Virginia, North and South Carolina and the District of Columbia, is at present making a special effort to render their particular type of service to the manufacturers of machinery, equipment, hardware and contractors' supplies, so that such manufacturers and sellers may have available to them facilities for handling sales on a time-payment basis at banking rates and be relieved of the details of collection for their time sales, which details are all handled by the bank in discounting the paper for the manufacturer or seller. They also finance a purchaser who desires to buy machinery or equipment on this plan. Associated with this bank at Richmond and in this work are the Morris Plan banks in Newport News and Petersburg, Va.; Greensboro, Raleigh and Winston-Salem, N. C.

Fellowships in Southern Universities.

In co-operation with the Bureau of Mines, Department of Labor, graduate fellowships in mining, metallurgical and chemical research are offered by prominent institutions of learning in various states, the object being to assist in the solution of different problems studied by the Bureau of Mines that are of particular importance to the region in which these institutions are located. The fellowships offer opportunities for qualified young men to become proficient in the fields of mining, metallurgical and chemical technology, and

to prepare themselves for highly specialized work in those fields.

Among the institutions offering such fellowships for the college year 1925-1926 are the University of Alabama, at Tuscaloosa, and the University of Missouri, Rolla. The School of Mines of the College of Engineering, University of Alabama, offers five fellowships in mining and metallurgical research of \$540 per year each. The School of Mines and Metallurgy of the University of Missouri offers four fellowships of \$800 each per annum.

Chattanooga Will Sell \$855,000 of Bonds.

Chattanooga, Tenn.—Bids will be received at the office of Mayor Richard Hardy until April 18 for the purchase of \$855,000 of municipal bonds of this city. An issue of \$500,000 of suburban improvement bonds will bear an interest rate of 4½ per cent, as will an issue of \$260,000 of school bonds. Paving bonds in the amount of \$95,000 will bear interest at 5 per cent.

Alabama Roads and Bridges.

Montgomery, Ala.—Sealed bids will be received until May 13 by the State Highway Commission, at its office in this city, for the construction of two road projects embracing a total of more than 16 miles and for building two bridges. Road work will cover five miles of gravel in Lawrence county and about 11 miles in Limestone county. A steel and concrete bridge will be built over the Choctawhatchee River in Dale county and one over Bear Creek in Colbert county.

Pinellas County Commissioners, Clearwater, Fla., have awarded contract for the construction of eleven miles of roads in special road and bridge district No. 4 at \$360,482.

GEORGIA

Has numerous attractive features for manufacturers and is unexcelled by any locality for the favorable conduct of the textile industry. Cotton Mills, Woolen Mills, Knitting Mills and kindred enterprises should investigate conditions at COLUMBUS, GEORGIA. We have the power, skilled labor, raw material and other economic features that make for success. Our commercial department has made a study of these conditions and will gladly give you the benefit of this information.

COLUMBUS ELECTRIC & POWER CO.

Columbus, Georgia

R. M. HARDING, Manager.

G. K. HUTCHINS, Sales Manager.

Under Executive Management of
STONE & WEBSTER, Inc.
Boston—New York—Chicago

What Some Prominent Men Think of The Southern Exposition

Many expressions of commendation of the Southern Exposition and its value to the South have come from Southern business leaders in New York as well as other outstanding men of affairs in that city. The following extracts are taken from letters which some of these men have written:

J. B. DUKE—

"I most certainly am interested in the Southern Exposition and I understand from Mr. Lee that the Southern Power Company is planning to have an exhibit. I agree with you that this Exposition should help the South a great deal in a material way, and I sincerely hope the State of North Carolina will get behind the proposition and do her part in making it a marked success."

HON. JOHN W. DAVIS—

"I am sure that if the matter is properly presented to the people of West Virginia the industries of the state will not be willing to overlook the opportunity which this Exposition will afford to present the wonderful future and present possibilities of West Virginia. I would certainly have no hesitation in recommending their participation in the proposed Exposition."

JOHN HAYS HAMMOND—

"We hope the Southern manufacturers will take a leading part in this co-operative scheme to present a picture of the commercial activities of your great section."

GEORGE A. CARDEN—

"No Southerner will be able to observe the remarkable progress of the South, visualized as it will be at the Exposition, without thrills of pride and pleasure."

B. F. YOAKUM—

"After my investigation and full knowledge of the methods that you have adopted to make known the advantages of the Southern States through the Southern Exposition, to be held May 11-23, I heartily endorse the work you have undertaken. Therefore, with my personal knowledge of what you are doing, I can heartily recommend that the people of Texas take advantage of what you have to offer them in the way of exhibiting the resources of their state."

THEODORE H. PRICE—

"I unhesitatingly commend this enterprise and believe that every exhibitor who takes part will find it to his advantage. It is a unique opportunity to arouse a nation-wide interest in the industrial achievements and potentialities of the Southern States."

J. KRUTTSCHNITT—

"In my judgment there is no project that could better serve the interests of the South than to comprehensively place before the nation the wonderful resources and remarkable growth of the Southern States through the medium of the proposed Exposition, to be held in New York. The educational value of the Exposition will be incalculable and without doubt will greatly stimulate the flow of capital and energy toward the vast opportunities that await them in the South."

This is a real opportunity to center the attention of the nation's great business leaders in the South, showing what it has, what it has done and what it offers, and we urge those who will have a part in this great co-operative Exposition to write quickly or telegraph for space wanted.

For full information address

SOUTHERN EXPOSITION

Grand Central Palace, New York, May 11-23, 1925



We furnish light without
visible source for:

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Churches
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We have specialized on this work for more than 40 years, and can furnish highest credentials as to character and quality of work and absolute responsibility. Let us send samples and quote on your requirements.

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Maybe This Bank Is Different From Others

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Pratt Street and Market Place, Baltimore, Md.

Capital and Surplus \$1,000,000.00 Member Federal Reserve System

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IN RICHMOND VIRGINIA

The First National Bank offers complete facilities for quick collections in this territory.

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JOHN M. MILLER, JR.,
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Resources over \$30,000,000
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FOURTH NATIONAL BANK MACON, GA.

In close touch with all of Georgia, offers its aid to those interested in that State.

We Buy Bonds

City, County, School and Road from
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CAPITAL, \$1,000,000

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BALTIMORE, MD.

**RAILROAD, PUBLIC UTILITY
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LOANS TO STATES, COUNTIES AND CITIES**Municipal Bonds****EYER & CO.**

Established 1907

Correspondence Invited

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We are interested in the purchase of
Southern Municipals including road,
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Southern Trust Bldg.

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**WE ARE
MUNICIPAL BOND BUYERS***"Always In The Market"*

The Weil, Roth & Irving Co.
Dixie Terminal Bldg. Cincinnati, O.

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First National Bank Building

CHICAGO

We purchase SCHOOL, COUNTY and MUNICIPAL
BONDS. Southern Municipal Bonds a Specialty.

Write us if you have bonds for sale

HAVE YOU BONDS FOR SALE?

WE BUY ALL CLASSES OF MUNICIPAL BONDS,
INCLUDING CITY, COUNTY, SCHOOL,
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Our Guaranteed First Mortgages on Homes**7%**

We take them in our name, endorse them over to you,
and guarantee them. You own the whole loan. Better
than Bonds.

Let us tell you why. Interest sent to your door by mail
quarterly.

24 years in business, and never a loss. References: Any
Bank or Trust Company in Savannah.

G. A. MERCER COMPANY, INVESTMENT BANKERS*Assets and Resources More Than \$1,000,000*

SAVANNAH, GA.

REAL ESTATE MORTGAGE BONDS

We are interested in the purchase of first mortgage
bond issues covering business property, hotels, apart-
ment houses, etc., in amounts of \$50,000 and upwards.
Entire issues city, county and district bonds pur-
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MARX AND CO.

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In the financing of apartment houses,
hotels, office buildings, or any other in-
come producing structures in the South,
the Adair Realty & Trust Company
stands out as the organization able to
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advisory and cooperative assistance.

For over 60 years this organization
has been enlisted in the service of prop-
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**Unusual Services that only the
South's Oldest Real Estate
Firm can render**

The growth of the leading Southern
cities has been charted over a period
covering more than half a century. The
trend of cities' growth is being con-
stantly and carefully studied. From
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magnitude and its direction can be
logically forecast by the application of
principles that constitute, for all prac-
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As to the problem of how to fill the
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the man whose building is financed
through the Adair Realty & Trust
Company receives the advice of an or-
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which, from experience, knows thor-
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easily rented and the proper method of
keeping them occupied.

Architects, builders and property
owners interested in placing first mort-
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themselves of the unusual services
offered.

*Address Mortgage Bond
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Adair Realty & Trust Company*The South's Oldest Mortgage Investment House*

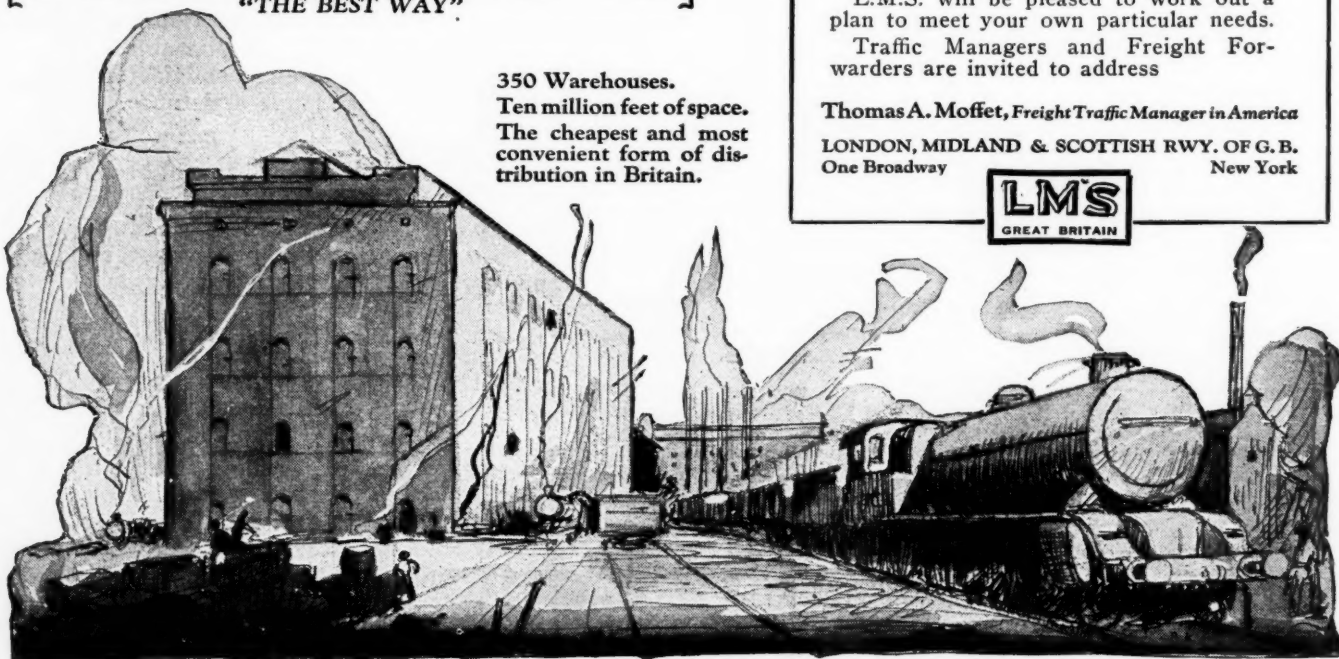
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Have the **LMS** solve your distribution problems in Britain

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"THE BEST WAY"

350 Warehouses.
Ten million feet of space.
The cheapest and most
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Exporters to Britain

A Distribution Plan to Meet Your Needs

The L.M.S. have created a new system of zone storage and distribution over the industrial areas of Great Britain.

Using their own chain of 350 rail-connected warehouses, they design special distribution plans to meet the requirements of every type of distributor at the minimum cost.

L.M.S. will be pleased to work out a plan to meet your own particular needs.

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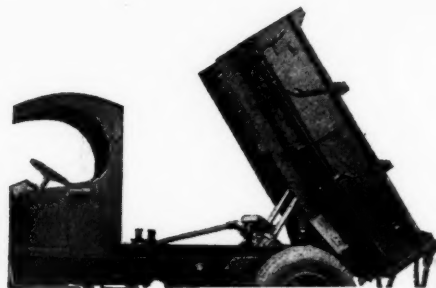
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For twenty-five years
Phoenix Portland Cement
has consistently proven
its uniformity and
dependability

**PHOENIX
PORTLAND CEMENT
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Why not HEIL HOISTS?

For road-building, construction work and material handling, equip your dump trucks with HEIL HOISTS—the kind that never fail. Located under the Body, simple, compact and self-contained. Heil Hoists are the invisible power which dump any load your truck may carry. Here you have 45° to 60° dump angles. You are sure of a speedy dump job. You have no service troubles. Why not try Heil Hoists?

Send for our Twenty-eight page Catalog 140.

THE HEIL co.

1255 26th Ave.

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One of our Twenty-five Distributors is Near You!

Fatima Cigarettes Are Made In An "ANTI-HYDRO" Waterproofed Factory.

The basement in the Liggett & Meyers factory was permanently waterproofed and dampproofed in one operation and at one cost of less than 1½ cents a square foot by using "ANTI-HYDRO" in the one inch concrete floor topping.

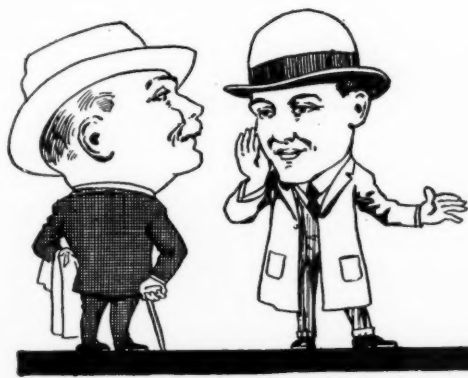
Large bales of tobacco, which must be kept dry to prevent rotting, are stored in this basement. They weigh from 600 to 700 pounds and are continually trucked over the concrete floor. Since "ANTI-HYDRO" both hardens and waterproofs concrete at the same time, it protects the floor from wear as well as water.

"ANTI-HYDRO" is easy and economical to use. Being a liquid integral agent it mixes readily with the gauging water without the aid of skilled labor. Twenty-one years of continuous use on every type of concrete work has made "ANTI-HYDRO" the accepted standard. Use it on your next job for guaranteed satisfaction.

ANTI-HYDRO WATERPROOFING CO.

265-269 Badger Ave.

Newark, New Jersey



ARCHITECTS and ENGINEERS, FRANCISCO & JACOBUS
CONTRACTOR, H. K. FERGUSON CO.

LIGGETT & MEYERS TOBACCO CO., BUILDING, RICHMOND, VA.

PROPOSALS

BOND ISSUES
BUILDINGS
PAVING
GOOD ROADS

Bids close April 21, 1925.

SEALED PROPOSALS marked "Proposal for Recreation Building, Northampton, Massachusetts," will be received by the U. S. Veterans' Bureau, Room 791, Arlington Building, Washington, D. C., until 11 A. M. April 21, 1925, and then there publicly opened, for the construction complete of Recreation Building and Covered Walk, also Road and Parking at U. S. Veterans' Hospital No. 95, Northampton, Massachusetts. This work will include reinforced concrete construction, brick work, hollow tile, metal lathing, slate and metal roofing, marble work, floor tile, carpentry, ironwork, plastering, hardware, painting, glazing, swimming pool, plumbing, heating and electrical work and outside service connections. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 791, Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$25, payable to the **TREASURER OF THE UNITED STATES**, is required as security for safe return of the drawings and specifications within ten days after date of opening proposals. **FRANK T. HINES**, Director, March 20, 1925.

Bids close April 11, 1925.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 A. M. April 11, 1925, and then opened, for furnishing and delivering four sets of cylinder valves, operating mechanism for the same, etc., for navigation lock No. 1 of approaches to Wilson Dam, Tennessee River. Further information on application.

Bids close May 4, 1925.

Treasury Department, Bureau of Engraving and Printing, Washington, D. C. April 1, 1925. Sealed proposals are invited to furnish this Bureau with Brass and Iron Castings, the purchase of Pulp, Ink Scrapings, Distinctive Paper Shredded Trimmings and Postage Stamp and Internal Revenue Paper Trimmings, and for the Cleaning of Windows during the fiscal year beginning July 1, 1925. Proposals to be received not later than 2 P. M. Monday, May 4, 1925. Blank forms with specifications for proposals for the several schedules and further information will be furnished on application to **A. W. HALL**, Director.

Bids close April 14, 1925.

\$125,000 5% School Bonds

The City Commission of the City of Waycross will receive sealed bids until 8 o'clock P. M. April 14, 1925, for \$125,000 City of Waycross School Bonds, bearing 5% interest. For descriptions of the bonds, financial statement and information respecting Waycross address **JEROME CRAWLEY**, City Attorney, Waycross, Georgia.

Bids close April 20, 1925.

\$110,000 6% Water-Works Extension Bonds

Okeechobee, Fla.

Sealed bids addressed to the Mayor and City Council of Okeechobee, Okeechobee, Florida, will be received until 2 P. M. April 20, 1925, at Okeechobee, Florida, for the sale and purchase of Water Works Extension Bonds of the City of Okeechobee, Florida, in the aggregate sum of \$110,000, bearing interest at the rate of six per cent (6%), payable semi-annually, said bonds to be in denominations of \$1000 each. Said bonds will be dated March 1, 1925, and will be due and payable as follows:

\$11,000 on March 1, 1925, and \$11,000 on March 1 of each and every year thereafter up to and including March 1, 1934.

These bonds will be issued under and in accordance with Chapter 8318, Laws of Florida, Acts of 1919, and Chapter 9855, Laws of Florida, Acts of 1923, and for the purpose of extending and expanding the Water System of the City of Okeechobee, Florida, and of paying the cost thereof.

Approving legal opinion of Caldwell and Raymond of New York City will be furnished without charge.

The right is reserved to reject any or all bids.

T. W. CONELY, JR., Mayor.

R. P. FLETCHER, Clerk.

(Corporate Seal)

Bids close April 23, 1925.

Bridge**SANITARY AND DRAINAGE COMMISSION OF CHARLESTON COUNTY.**

Charleston, S. C.

Bids will be received until 12 o'clock noon Thursday, April 23, 1925, at offices of the Sanitary and Drainage Commission, No. 39 Broad street, Charleston, S. C., for the construction of steel and concrete bridge over Wappoo Creek between St. Andrew's Parish and James Island.

APPROXIMATE QUANTITIES AS FOLLOWS:

Contract No. 1—Steel Superstructure—220,570 lbs. of Steel Superstructure complete in place, including painting.
403 lineal ft. metal railing.
Necessary machinery and castings complete in place for hand operation.
Necessary machinery and castings complete in place for electric operation.
Contract No. 2. Substructure and Approaches—
5700 lineal ft. treated timber piles. (Fenders.)
960 lineal ft. untreated timber piles.
3085 lineal ft. concrete piles.
997 8/10 cu. yds. Class AA concrete.
86,600 lbs. of deformed steel Bars for reinforcement.

53 3/10 MBM Treated timber as per plan.
464 lineal ft. of concrete railing.
402 sq. yds. of Wood Block paving.
460 sq. yds. of Sheet Asphalt Pavement.
Removal of Old Bridge (lump sum).
248 lbs. of Iron Castings (drains).

Proposals Contract No. 1 must be accompanied by a certified check for six hundred (\$600) dollars, made payable to the Chairman of the Sanitary and Drainage Commission of Charleston County.

Proposals Contract No. 2 must be accompanied by a certified check for fifteen hundred (\$1500) dollars, made payable to the Chairman of the Sanitary and Drainage Commission of Charleston County.

Bid Bonds will not be accepted. Plans, Specifications and Proposal forms are on file at the offices of the Sanitary and Drainage Commission of Charleston County, No. 39 Broad street, Charleston, S. C. Plans will be furnished at the above address upon request, accompanied by a check for \$5.00, and no refunds will be made for plans returned.

Bids close April 24, 1925.

Road and Bridge Construction

Nashville, Tenn.

SEALED BIDS will be received by the State of Tennessee, Department of Highways and Public Works, at their offices in Nashville, Tennessee, Friday, April 24, 1925, and opened publicly at 10 o'clock A. M. for the construction of 7.02 miles of cement concrete pavement in McMinn County; 5.43 miles of cement concrete pavement or bituminous concrete surface on cement concrete base in Anderson County; 10.71 miles of bituminous concrete surface on cement concrete base or cement concrete pavement in Haywood County; a reinforced concrete and steel bridge of three spans at 40 feet and one span at 80 feet in Haywood County; 3.42 miles of cement concrete pavement or bituminous concrete surface on cement concrete base in Tipton County; 4.40 miles of bituminous concrete surface in Marion County; a reinforced concrete bridge of three 30-foot spans in Sumner County; 8.56 miles of slag surfacing in Cumberland County; 3.11 miles of bituminous macadam surface in Hamblen County; 5.75 miles of bituminous concrete surface on cement concrete base or plain cement concrete pavement in Crockett County; small reinforced concrete drainage structures in Grundy County.

Plans and specifications are on file in the offices of the Tennessee Department of Highways and Public Works at Nashville.

Bids will be carefully analyzed and the organization, experience and responsibility of the bidder considered in making the award. The Department reserves the right to make the time of construction a determining factor in the selection of the lowest and best bidder and the right to reject any or all bids. Further information may be had upon application to the Department at Nashville.

J. G. CREVELING, JR.,
Commissioner.

Bids close April 21, 1925.

Highway Construction

**DEPARTMENT OF PUBLIC WORKS.
STATE OF MARYLAND.
STATE ROADS COMMISSION.
NOTICE TO CONTRACTORS.**

Baltimore, Md.

Sealed proposals for building three sections of State Highway as follows:

Montgomery County, Cont. M-56—One section of State Highway along the Urbana Pike, from the end of Cont. M-50 to the Frederick County Line, a distance of 1.02 miles. (Concrete.)

Calvert County, Cont. C-22—One section of State Highway from the end of Cont. C-17 toward Plum Point, a distance of 2.0 miles. (Gravel.)

Baltimore City, Cont. BC-51—One section of State Highway along Carnegie avenue, from O'Donnell street to Fifth avenue, a distance of 0.68 mile. (Concrete.) will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 21st day of April, 1925, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 2nd day of April, 1925.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close April 14, 1925.

Highway Construction

**DEPARTMENT OF PUBLIC WORKS.
STATE OF MARYLAND.
STATE ROADS COMMISSION.
NOTICE TO CONTRACTORS.**

Baltimore, Md.

SEALED PROPOSALS for building four sections of State Highway as follows:

Carroll County, Cont. CI-38—One section of State Highway along the Libertytown-New Windsor Road from the Frederick County Line to end of Cont. CI-43, a distance of 1.46 miles. (Concrete.)

Baltimore City, Cont. BC-50—One section of State Highway along North avenue from John street to McMechen street, a distance of 0.16 mile. (Sheet Asphalt.)

Calvert County, Cont. C-19—One section of State Highway from All Saints Church toward Lower Marlboro for a distance of 2.0 miles. (Gravel.)

Caroline County, Cont. Co-36—One section of State Highway from Preston toward Choptank for a distance of 0.82 mile. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 14th day of April, 1925, at which time and place they will be publicly opened and read. Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 27th day of March, 1925.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close April 21, 1925.

Street Improvements

Manatee, Fla.

Sealed proposals on blank forms furnished by the City of Manatee, Florida, and addressed to Kirby and Webb, Commissioners of Public Works, Manatee, Florida, will be received until 2 P. M. April 21, 1925, at the City Clerk's office of said city, for furnishing all materials, equipment and labor and performing the following work:

Grading, Draining, Paving, Constructing Culverts, Storm Drainage, Laying Sewer Pipes, Drain Pipes and Water Pipes, and otherwise improving a number of streets in the City of Manatee.

Bids may be for the whole or separate bids on each of the following classes, to wit: Storm Sewers, Sanitary Sewers, Altering Open Drains, Street Paving and Curbing and Water Works Extension, with the necessary excavation and grading in each case.

Copies of the plans and specifications may be seen at the City Clerk's office or at the Resident Engineer's office, or a set will be sent to any address upon receipt of \$10.

KIRBY AND WEBB.

Commissioners of Public Works.

Bids close April 14, 1925.

Street Improvements

**DEPARTMENT OF PUBLIC WORKS.
STATE OF MARYLAND.
STATE ROADS COMMISSION.
NOTICE TO CONTRACTORS.**

Baltimore, Md.

SEALED PROPOSALS for building one section of State Highway as follows:

Baltimore City, Cont. BC-48—One section of State Highway along Washington street from Fayette street to Chase street, a distance of 0.63 mile. (Sheet asphalt.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 14th day of April, 1925, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 30th day of March, 1925.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close April 14, 1925.

Street Improvements

Columbus, Miss.

Sealed proposals will be received by the Mayor and City Council of Columbus, Mississippi, until 7.30 P. M. on Tuesday, April 14, 1925, and at that time publicly opened, for street improvements under Improvement Ordinances 1, 2 and 5, the same being on Third avenue, North, from Fifth street to Seventeenth street; College street from Sixth street to Fifteenth street and North Fifth avenue from Second to Third avenue.

The principal items of work are approximately as follows:

Earth excavation, 13,000 cubic yards.
Paving (Concrete, Brick or Asphalt), 27,000 square yards.

Curb and Gutter, 16,000 lineal feet.
Storm Sewers, 4000 lineal feet.
and incidentals pertaining thereto.

Plans and specifications are on file in the office of the City Clerk at Columbus, Miss., and in the office of the Consulting Engineers, Birmingham, Alabama. Specifications and proposal blanks can be secured without deposit from the undersigned or from the Consulting Engineers. Copy of the plans will be mailed by the Consulting Engineers on receipt of payment (not deposit) of \$5.00. The right to reject any or all bids is reserved.

Cash or certified check or proposal bond for Five Thousand Dollars, made payable to the City of Columbus, Miss., must accompany each bid as an evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

L. A. VAUGHAN, Mayor.

ROBERT L. TOTTEN, INC.,
Consulting Engineers,
Birmingham, Alabama.

Bids close April 27, 1925.

Water Mains and Appurtenances

Towson, Md., March 26, 1925.

Sealed proposals addressed to the County Commissioners of Baltimore County and endorsed bids for the laying of Water Mains and Appurtenances thereto, for Colgate and Essex, will be received at their office, Towson, Maryland, until 12 o'clock noon on April 27, 1925, when they will be publicly opened and read.

APPROXIMATE LIST OF QUANTITIES ON CONTRACT No. 2-W.

47,800 linear feet Earth excavation and refill for 6-inch pipe.
 1000 linear feet Class "A" Rock excavation and earth refill for 6-inch pipe.
 500 linear feet Class "B" Rock excavation and earth refill for 6-inch pipe.
 500 linear feet Class "C" Rock excavation and earth refill for 6-inch pipe.
 11,560 linear feet Earth excavation and refill for 8-inch pipe.
 50 linear feet Class "A" Rock excavation and earth refill for 8-inch pipe.
 50 linear feet Class "B" Rock excavation and earth refill for 8-inch pipe.
 50 linear feet Class "C" Rock excavation and earth refill for 8-inch pipe.
 13,325 linear feet Earth excavation and refill for 10-inch pipe.
 50 linear feet Class "A" Rock excavation and earth refill for 10-inch pipe.
 50 linear feet Class "B" Rock excavation and earth refill for 10-inch pipe.
 50 linear feet Class "C" Rock excavation and earth refill for 10-inch pipe.
 12,450 linear feet Earth excavation and refill for 12-inch pipe.
 50 linear feet Class "A" Rock excavation and earth refill for 12-inch pipe.
 50 linear feet Class "B" Rock excavation and earth refill for 12-inch pipe.
 50 linear feet Class "C" Rock excavation and earth refill for 12-inch pipe.
 10,800 linear feet Earth excavation and refill for 16-inch pipe.
 50 linear feet Class "A" Rock excavation and earth refill for 16-inch pipe.
 50 linear feet Class "B" Rock excavation and earth refill for 16-inch pipe.
 50 linear feet Class "C" Rock excavation and earth refill for 16-inch pipe.
 50 cubic yards Miscellaneous and Test Pit earth excavation and refill.
 Miscellaneous items, including cinder, gravel and concrete repaving.

APPROXIMATE LIST OF QUANTITIES OF CONTRACT 3-W.

49,800 linear feet, laying 6-inch main, valves and fittings, lead joints, alternate bid, leadite joints.
 11,700 linear feet, laying 8-inch main, valves and fittings, lead joints, alternate bid, leadite joints.
 13,475 linear feet, laying 10-inch main, valves and fittings, lead joints, alternate bid, leadite joints.
 12,600 linear feet, laying 12-inch main, valves and fittings, lead joints, alternate bid, leadite joints.
 10,950 linear feet, laying 16-inch main, valves and fittings, lead joints, alternate bid, leadite joints.
 Lump sum furnishing brackets, ties and laying pipe at Back River Bridge.
 Lump sum, placing pipe and connecting pump at Colgate Booster Station.
 85 Placing Fire Hydrants.
 1000 Tapping mains and placing 8 linear feet service pipe, various sizes, $\frac{3}{4}$ inch, 1 inch, $1\frac{1}{2}$ inch and 2 inch.
 17,000 linear feet additional service pipe, various sizes.
 1000 placing Meters and Meter housings, various sizes, $\frac{3}{4}$ inch and $\frac{1}{2}$ inch, 1 inch, $1\frac{1}{2}$ inch and 2 inch.
 Miscellaneous items.

Each bid must be accompanied by a certified check for Five Thousand (\$5000) Dollars as a guarantee that the successful bidder will sign the contract, and a security bond for an amount equal to the amount of the contract of a Security Company satisfactory to the Commissioners, will be required of the successful bidder.

A copy of the Specifications, Plans and Drawings will be furnished each bidder, for which a charge of Twenty-five (\$25) Dollars will be made to the contractor requesting bids and specifications, and which will be returned only in case a bona fide bid has been submitted and the Specifications, Plans and Drawings received at the office of the Chief Engineer within ten (10) days after the opening of the bids and award.

Specifications, Plans and Drawings can be seen at the office of the Chief Engineer, Baltimore County Metropolitan District, after Monday, March 30.

Consideration will be given bidders' experience, financial standing and reputation for having done successful work without controversy or litigation, and the Commission reserves the right to reject any or all proposals or bids or parts of bids or to accept any bids or parts of bids, or separate bids for laying of the pipe and services from the excavation and refill, or to waive technicalities as they may deem best for the interest of the county.

JOHN R. HAUT, Clerk.
 A. E. WALDEN, Chief Engineer.

Bids close April 28, 1925.

Water-Works Improvements

High Point, N. C.

Sealed proposals will be received by the Mayor and City Council of High Point, N. C., until 7:30 o'clock P. M. April 28, at the City Hall in High Point, N. C., for Water Works Improvements enumerated as follows:

Furnishing and delivering F. O. B. cars High Point, N. C., four (4) motor-driven and two (2) gasoline-engine driven centrifugal pumping units with starters and appurtenant equipment.

Furnishing materials and labor for and constructing additions to the River Pumping Station, the City Pumping Station and the Filter Plant.

Remodeling filter piping, etc., in filter plant and installing controlling equipment, chemical laboratory equipment, filter sand and gravel, etc.

Furnishing materials and labor for and constructing a reinforced concrete coagulating basin.

Furnishing and installing piping, valves, fittings, etc.

Proposals must be marked "PROPOSALS FOR WATER WORKS IMPROVEMENTS." All bids must be made upon blank forms provided in copies of the Proposal, Contract and Specifications, enclosed in a sealed envelope and addressed to the Mayor and City Council of the City of High Point, N. C.

Each bid must be accompanied by a certified check in the amount of seven and one-half (7½%) per cent of the amount of the bid as evidence of good faith. Bid bonds will not be acceptable.

Copies of the plans, specifications, form of proposal, contract, etc., may be obtained upon application to the Engineer.

The right is reserved to reject any or all bids, or to award contract or contracts which, in the opinion of the Engineer and the Council, appear to be for the best interests of the city.

JNO. W. HEDRICK, Mayor.
 R. L. PICKETT, City Manager.
 WILLIAM C. OLSEN, Consulting Engineer,
 Raleigh, N. C.

Bids close April 28, 1925.

Water Supply Improvements and Fire Station

Carthage, N. C.

Sealed proposals will be received by the Town Board of Commissioners of Carthage, North Carolina, at the office of the Mayor until 11 o'clock A. M. Tuesday, April 28, 1925, for the following improvements:

FIRE STATION, 32 FT. x 62 FT., BRICK.
 Alternate bids will be received on the following:

1 200,000-gallon Reinforced Concrete Reservoir.

1 Steel Stand Pipe, 16 ft. in diameter by 100 ft. high.

1 Steel Stand Pipe, 19 ft. in diameter by 100 ft. high.

1 Steel Stand Pipe, 21 ft. in diameter by 100 ft. high.

All bids must be upon blank forms provided in the proposal and contract forms, and marked proposal for WATER SUPPLY IMPROVEMENTS AND FIRE STATION.

Plans and specifications are on file at the office of the City Clerk and at the office of the Engineers, and will be mailed upon application, accompanied by a check for \$10, which will be returned to bona fide bidders.

Each bid must be accompanied by a certified check of not less than 5% of the amount bid. The right is reserved to reject any or all bids.

R. L. BURNS, Mayor.
 W. H. CURRIE, Clerk.
 THE CAROLINA ENGINEERING CO.,
 Engineers, 917-919 Johnston Building,
 Charlotte, North Carolina.
 G. H. BISHOP, Consulting Engineer.

Bids close April 30, 1925.

Concrete Drainage Structure

Moultrie, Ga.

Sealed proposals will be received by the Board of Commissioners of Roads and Revenues of Colquitt County, Ga., at the office of said board in the courthouse at Moultrie at 10 A. M. Eastern time on the 30th day of April, 1925, for furnishing all labor, materials, equipment and other things necessary for constructing concrete drainage structures on the following projects:

Project No. 1, on the Moultrie-Meigs road; Project No. 2, on the Moultrie-Chastine road; Project No. 3, on the Moultrie-Norman Park road; Project No. 4, on the Berlin-Ellenton road.

These structures are to be built in accordance with the plans and specifications of the Georgia State Standards for such structures.

The work will consist of the following approximate items:

Project No. 1—750 cu. yds. Class "A" concrete.

120 cu. yds. class "B" concrete.

72,405 lbs. reinforcing steel.

606 lin. ft. Type C handrail.

900 lin. ft. 36-inch concrete pipe.

Project No. 2—578 cu. yds. class "A" concrete.

69,491 lbs. reinforcing steel.

514 lin. ft. handrail.

Project No. 3—178 cu. yds. class "A" concrete.

16,247 lbs. reinforcing steel.

130 lin. ft. Type C handrail.

420 lin. ft. 36-inch concrete pipe.

Project No. 4—180 cu. yds. class "A" concrete.

20 cu. yds. class "B" concrete.

14,100 lbs. reinforcing steel.

154 lin. ft. Type C handrail.

180 lin. ft. 36-inch concrete pipe.

Plans and specifications are on file at the office of the board at Moultrie, Ga., or at the office of the engineers at Americus, Ga.

Said work will be paid for as same progresses, to wit: 90% of the amount completed in each calendar month will be paid by the 15th day of each succeeding month, and the remainder shall be paid within thirty days of final acceptance.

Proposals must be submitted on regular forms supplied by the undersigned and must be accompanied by a certified check or bidder's bond for five per cent of the amount of the bid.

Bond will be required of the successful bidder as required by the law.

Right is reserved to reject any or all bids and to waive all formalities.

This 1st day of April, 1925.

BOARD OF COMMISSIONERS ROADS AND REVENUES.

Colquitt County.

SAM HARRELL, Chairman.

CAYE-ANDREWS CO., INC., Engineers,

Americus, Ga.

Bids close April 17, 1925.

High School Building

Williston, S. C.

Sealed proposals will be received by Mr. H. M. Thomson, Chairman School Board, Williston, S. C., on Friday, April 17, 1925, at 12 noon in Williston, S. C., for the erecting and heating of a Consolidated High School building for the town of Williston, according to plans and specifications prepared by Willis Irvin, Architect, Augusta, Georgia.

Plans and specifications may be secured by Building Contractors upon a deposit of \$25 and by Heating Contractors upon a deposit of \$10, WHICH DEPOSITS ARE TO BE RETURNED ONLY UPON THE SUBMISSION OF A BONA FIDE BID AND THE RETURN OF THE PLANS AND SPECIFICATIONS IN GOOD CONDITION TO THE ARCHITECT. Building Contractors may secure extra sets of plans upon payment of \$5.00 per set to cover printing costs, these plans to remain the property of the Architect.

Plans will be on file in the office of the Columbia Builders' Exchange, Columbia, S. C.; the Augusta Builders' Exchange, Augusta, Ga.; Willis Irvin Architect, Augusta, Ga., and Mr. H. M. Thomson, Williston, S. C.

Proposals for the erection of the building shall be accompanied by a certified check of \$1000 and proposals for the heating shall be accompanied by a certified check for \$250, said checks to be made payable to Mr. H. M. Thomson, Chairman. Bonds will be required of the successful bidders. The right is reserved to reject any or all bids.

H. M. THOMSON, Chairman.

Bids close May 23, 1925.

Masonic Temple.

New Orleans, La.

Sealed proposals will be received until 10 A. M. Saturday, May 23, 1925, for the construction of a fifteen (15) story, 100'x165' Masonic Temple in the City of New Orleans, La., in accordance with drawings and specifications prepared therefor by Sam Stone, Jr., Architect, 714 Union street, New Orleans, La.

Drawings and specifications may be obtained from the Architect by persons or firms engaged in the lines of work required and at the discretion of the Architect upon the deposit of a certified check or money in the sum of \$25 (TWENTY-FIVE DOLLARS), which deposit will be returned upon the return of the drawings and specifications in good condition and provided a bona fide bid shall be submitted in accordance with this notice by the person or firm to whom the said drawings and specifications are delivered.

Bids shall be sealed and addressed to Jno. A. Davilla, Grand Secretary of the Grand Lodge F. & A. M. of the State of Louisiana, 533-535 Iberville street, New Orleans, La., and shall be accompanied by a certified check or cash in the sum of \$5000 (FIVE THOUSAND DOLLARS) to guarantee that the person or firm by whom the bid is submitted will furnish bond as herein required, and enter into a contract in accordance with the bid within fifteen (15) days after being notified of the acceptance of the bid.

The contractor to whom the work is awarded will be required to furnish bond through a surety company satisfactory to the owners in a sum not less than fifty per cent (50%) of the contract to guarantee the faithful performance of all of the conditions of the contract.

The owners reserve the right to reject any or all bids.

The general contract is to include all work in accordance with drawings and

specifications, except the following items, upon which separate bids will be received, viz:

STRUCTURAL STEEL
HEATING
PLUMBING
VENTILATION
OIL-BURNING EQUIPMENT
ELECTRICAL WORK
ELEVATORS
MAIL CHUTE
VAULT DOOR AND EQUIPMENT.

Bids close May 5, 1925.

County Jail Work

Galveston, Tex., April 4, 1925.

Bids in duplicate will be received by the undersigned until 10 A. M. May 5, 1925, for the construction and erection of 6 to 10 Toolproof Steel Cells, with latest locking devices, Bunks, etc., Doors, Plumbing, Concrete Floor, etc., all on the fourth floor of County Jail, in accordance with Plans and Specifications on file in my office. A certified check on a Galveston bank for \$500, payable to County Judge, must accompany each bid. The County Commissioners' Court reserve the right to reject any and all bids, which must be addressed to the undersigned and marked "Bids for Jail Work."

JOHN M. MURCH, County Auditor.

Bids close April 16, 1925.

Power Plant Extensions.

Lakeland, Fla.

Sealed bids or proposals for additions to Power Plant will be received by the City of Lakeland, Florida, at the City Hall until 10 o'clock A. M. April 16, 1925, when they will be publicly opened and read.

Plans and specifications and information to bidders can be obtained from the Scofield Engineering Company, Commercial Trust Building, Philadelphia, Pennsylvania, or the City Manager, City of Lakeland, Florida, on deposit of Ten Dollars (\$10), which will be returned upon due return of said plans and specifications.

ANTON SCHNEIDER.

City Manager.

Bids close April 13, 1925.

Deep Well and Pumps

Gainesville, Fla.

Sealed proposals will be received until 2 o'clock P. M. April 13, 1925, by the City Council of the City of Gainesville, Florida, for the furnishing of all materials and labor to construct a deep well, together with motor-driven deep-well pump and service pump.

Each bid must be accompanied by a certified check or bid bond for five (5%) per cent of the amount bid, drawn to the order of the City of Gainesville, Florida.

Copies of plans and specifications may be seen at the office of the City Manager or the Engineers.

The right is reserved to reject any or all bids.

CITY OF GAINESVILLE, FLORIDA.

GEO. H. CAIRNS, City Manager.

ROBERT & COMPANY, INC., Engineers,
Atlanta, Georgia.

Bids close April 22, 1925.

Street Signs

OFFICE OF THE CITY ENGINEER.

Miami Beach, Fla., March 18, 1925.

Sealed proposals will be received at the above office until 9 o'clock A. M. on the 22nd day of April, 1925, for furnishing one thousand and seventy-six Street Sign Plates or other markers, a total of five hundred and thirty-eight installations of two signs each. All prices are to be either installed or F. O. B. Miami, Florida.

Proposals are desired on Concrete Monuments, with Street Names lettered thereon, and any and all types of Street Signs or other markers.

Proposals will also be received on seventy-five Brackets for mounting signs on White Way Posts. Bidders are requested to submit complete samples of the installations as covered by the bids, together with specifications, guarantees, if any, and statements as to just what the bid includes and when deliveries can be made.

Payment will be made on delivery and acceptance.

CITY COUNCIL, CITY OF MIAMI BEACH.
C. W. TOMLINSON, City Clerk.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE—100 acres land containing an inexhaustible quantity of the best Virginia Granite, well located and convenient to the Virginian R. R. Address
WALTER L. POWELL, Blackstone, Va.

NORTHWEST GEORGIA.

The scene of the next great industrial development in Georgia. Electric power available. Large power plants under construction.

For industrial sites; pine and hardwood timber; brick shales; clays, large or small water powers; farms in a prosperous section. Write, with detail, as to your requirements.

C. E. VANCE, Calhoun, Ga.

MINERAL AND TIMBER PROPERTIES WANTED

WANTED.
TO HEAR from parties having mineral properties for sale.
UNITED MINERALS CO., Roanoke, Va.

SILICA DEPOSIT

FOR SALE—Unlimited deposit of Silica, 99% without being washed. Fully developed, operated for several years. Loaded by gravity on Southern Railroad, fifteen miles from Bristol, Va.-Tenn. Air compressor drills and other machinery operated by water power. Address A. D. Reynold, owner, Bristol, Tenn.

COAL AND TIMBER LAND

TIMBER AND COAL LANDS FOR SALE.
100,000 standing trees, oak, pine, poplar, beech, hickory, sugar, gum, walnut, etc. Also 4000 acres coal. Located on Licking and tributaries. Accessible to railroad and water. Address
E. B. ARNETT, Salyersville, Ky.

MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

BAUXITE AND CLAY
BAUXITE AND CLAY FOR SALE on royalty basis; no cat-in-the-bag proposition. Am ready to do business. See me.
DAN KLECKLEY, Ex., Oglethorpe, Ga.

TIMBER AND TIMBER LAND

FOR SALE—Timber lands, cut-over lands especially suitable for colonizing, ranching or subdivision, located Alabama and Florida.
H. H. WEFEL, JR., Mobile, Alabama.

FARM AND TIMBER LAND

FOR SALE—1200-Acre Farm and Timber Land; productive soil, 10-room house, tenant houses, 800 acres, oak, chestnut, pine and hickory, mica prospects, Ruby and Rhodolite gems; 10 miles north of Franklin, N. C.; 3 miles of State Highway; title guaranteed. John E. Rickman, Franklin, N. C.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

FLORIDA INVESTMENTS—Acreage tracts, timber tracts, subdivisions and hotel sites, any section in Florida. Some bargains with quick turnovers and large profits on small investments assured; 25 years' experience. ASK ANYBODY. N. D. SUTTLES & COMPANY, Jacksonville and West Palm Beach, Fla.

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet, "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co. (Inc.), Opp. Postoffice, "Since before the War," Tampa, Fla.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

FOR SALE—48 acres, one mile and half south of Vero, on Dixie Highway. Price six hundred dollars per acre. We also have ocean frontage at ten dollars per foot up. Hoyt E. Morris & Co., Vero, Fla., on the East Coast.

FLORIDA INVESTMENTS.

Manatee County truck and farm lands. We handle business properties, subdivisions and general real estate. Write for information about this county.

MANATEE LAND SALES CO.,
Bradenton, Fla.

NEW PORT RICHEY—On river and near Gulf, is one of the beautiful spots of Florida. A coming tourist center. Lands are still reasonable in price. We have acreage, groves, houses and town lots. Booklet to interested parties. Edgar A. Wright Realty Company, New Port Richey, Florida.

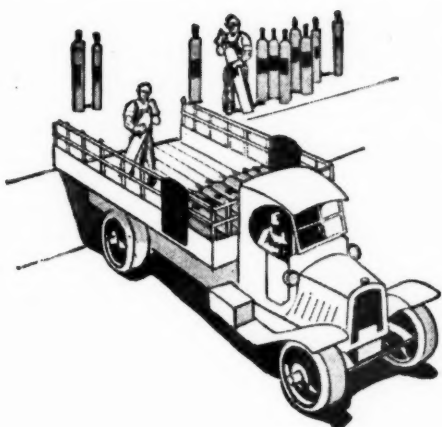
FLORIDA ACREAGE—Twenty-two thousand acres at \$25; eighty-one thousand at \$30 and twenty-three thousand at \$32, all in Pasco County, where Percy Rockefeller and Otto Kahn have been investing. One-fourth cash, balance one, two and three years at 6% interest. Edgar A. Wright Realty Co., New Port Richey, Fla.

TWENTY ACRES AND PLENTY.

Free book tells truth about Florida land; monthly payments \$1 an acre. orange groves, planted, cared for 10 per cent above cost.

SYLVESTER E. WILSON,
Dept. X, Orlando, Fla.

What Linde Process Service will *not* do!



YOUR REQUEST for Linde Service will not always bring you a man. Problems similar to yours may have been solved so frequently by Linde that the solutions have been compiled into a book or covered in a magazine article.

These books and magazines, which are a part of Linde Process Service, will not answer all of your questions. But they will answer many of them.

Linde Process Service will not do your work for you. Yet it may be necessary for a Linde Service operator to use a blowpipe to demonstrate the correct practice.

Linde Process Service will not train your operators. But it will help you to teach them and keep them informed on the latest practices.

Linde Process Service will not run your shop. But it will help you do your welding and cutting in accordance with the best shop methods.

Linde Process Service will not do your engineering. But Linde engineers can be of assistance to your own engineering department on all phases of welding and cutting.

Finally, Linde Process Service will not be perfect. But it is the best answer today to problems which arise when the oxy-acetylene process is used or contemplated. Furthermore, successful service in each specific case makes Linde Process Service better and more helpful to all Linde customers.

Linde Process Service is free to every Linde user for the asking.

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THE LINDE AIR PRODUCTS COMPANY

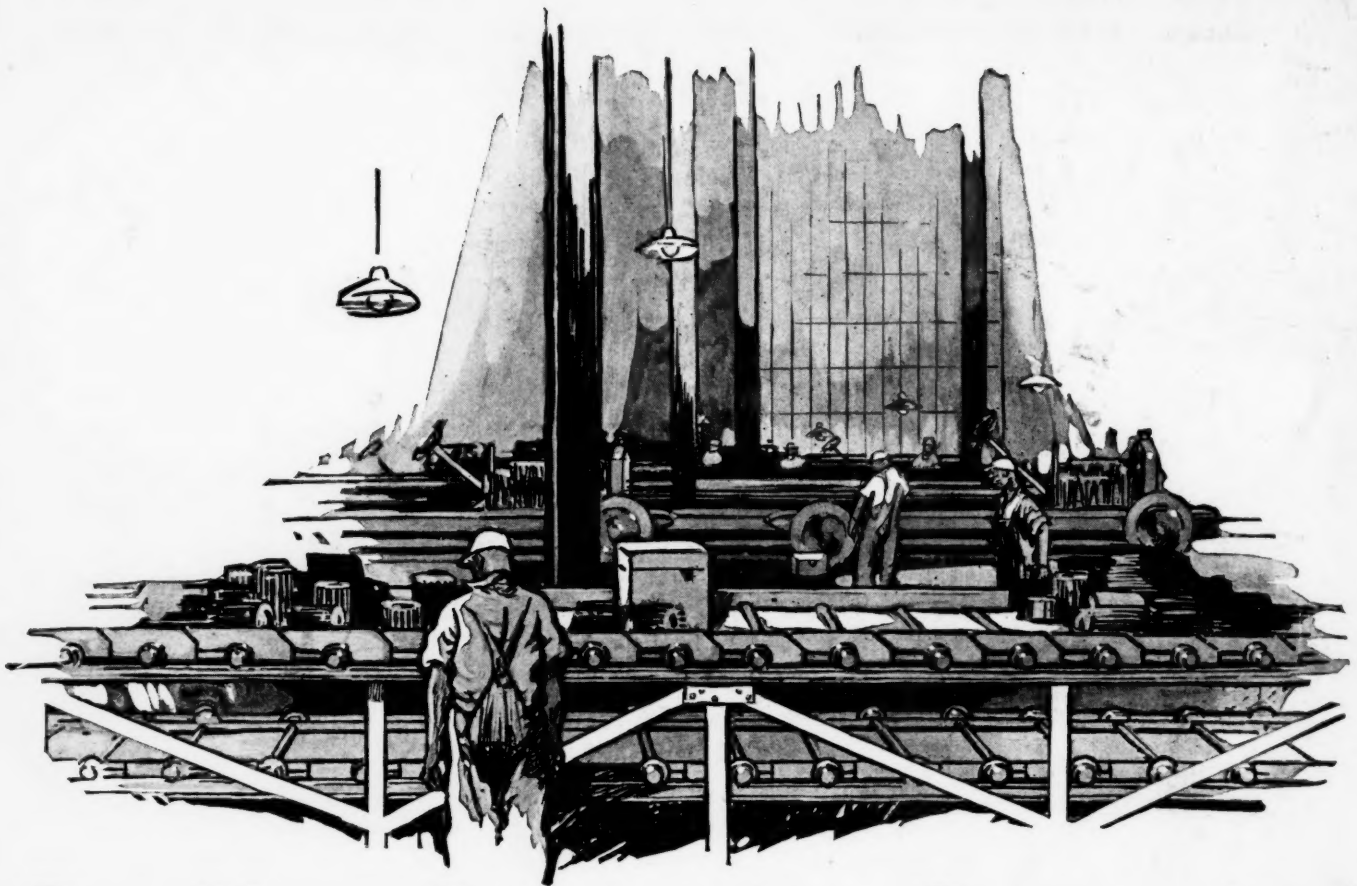
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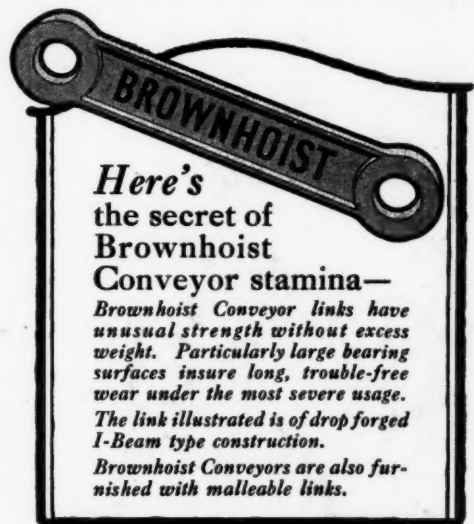


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Reliability—long wear—freedom from breaks and costly tie-ups; these are the things of which users of Brownhoist Chain Conveyors are absolutely sure.

The construction of every part is unusually sturdy—with a safety factor far in excess of any ordinary demand. Yet Brownhoist Conveyors are not cumbersome, and they are just as economical in operation as in maintenance.

Back of every Brownhoist Conveyor are forty years of experience in the design and construction of material handling equipment. Our Engineering Staff will gladly confer with you on your conveying or material handling problems. Their suggestions have resulted in marked economies in plants of every sort, the world over.



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